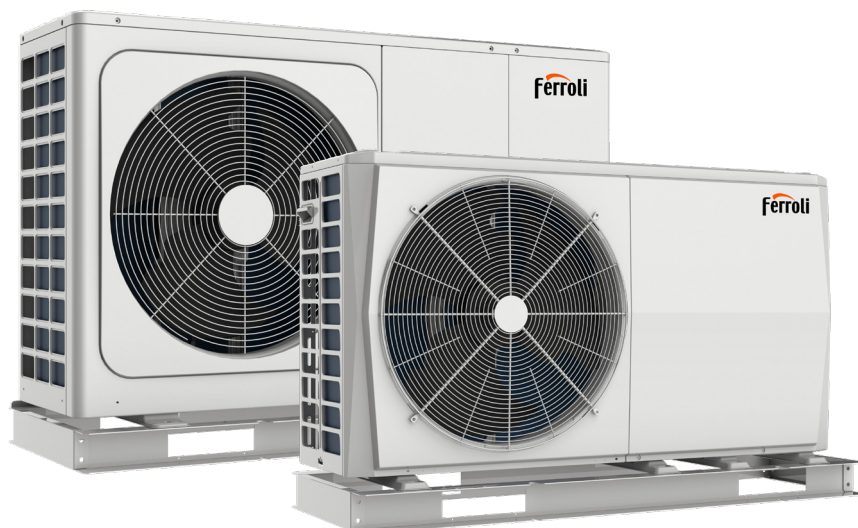


## OMNIA M 3.2

POMPE DI CALORE REVERSIBILI PER INSTALLAZIONE ESTERNA  
CON COMPRESSORE DC INVERTER  
REVERSIBLE HEAT PUMP UNITS FOR OUTDOOR INSTALLATION  
WITH DC INVERTER COMPRESSOR



Cod. 3QE47430 - Rev. 00 - 11/2021



IT

BOLLETTINO TECNICO

EN

TECHNICAL BULLETIN

## Dati ERP / ERP data

| Models                                         |                                        | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 12T  | 14T  | 16T  | UM           |
|------------------------------------------------|----------------------------------------|------|------|------|------|------|------|------|------|------|------|--------------|
| Seasonal space heating energy efficiency class | low temperature (water outlet at 35°C) | 191  | 195  | 205  | 204  | 189  | 185  | 182  | 189  | 185  | 182  | ηs (%) class |
|                                                | medium temperature (water at 55°C)     | 129  | 138  | 131  | 136  | 135  | 135  | 133  | 135  | 135  | 133  | ηs (%) class |
| SCOP                                           | low temperature (water outlet at 35°C) | 4,85 | 4,95 | 5,21 | 5,19 | 4,81 | 4,72 | 4,62 | 4,81 | 4,72 | 4,62 | W/W          |
|                                                | medium temperature (water at 55°C)     | 3,31 | 3,52 | 3,36 | 3,49 | 3,45 | 3,47 | 3,41 | 3,45 | 3,47 | 3,41 | W/W          |
| SEER                                           | water at 7°C                           | 4,99 | 5,34 | 5,83 | 5,98 | 4,89 | 4,86 | 4,69 | 4,86 | 4,83 | 4,67 | W/W          |
|                                                | water at 18°C                          | 7,77 | 8,21 | 8,95 | 8,78 | 7,10 | 6,90 | 6,75 | 7,04 | 6,85 | 6,71 | W/W          |

**NOTA:** Classe di efficienza calcolata secondo regolamento europeo 811/2013. I valori si riferiscono ad unità prive di eventuali opzioni o accessori.

**NOTA:** Declared according to **European regulation 811/2013**. The values are referred to units without options and accessories.

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The manufacturer reserves the right to modify the products contents in this catalogue without previous notice.

## SOMMARIO / SUMMARY

[illegible]

| For low - temperature application (35°C) |                         |                  |        |                            |                           |        |                            |                           |        |                            |                           |
|------------------------------------------|-------------------------|------------------|--------|----------------------------|---------------------------|--------|----------------------------|---------------------------|--------|----------------------------|---------------------------|
| Mod                                      | Average                 |                  |        |                            |                           | Colder |                            |                           | Warmer |                            |                           |
|                                          | Energy efficiency class | Unit sound power | Prated | Seasonal energy efficiency | Annual energy consumption | Prated | Seasonal energy efficiency | Annual energy consumption | Prated | Seasonal energy efficiency | Annual energy consumption |
| OMNIA M 3.2 Mod. 4 / 4 HI3               | A+++                    | 55               | 5      | 191                        | 2351                      | 5      | 160                        | 2769                      | 5      | 255                        | 1146                      |
| OMNIA M 3.2 Mod. 6 / 6 HI3               | A+++                    | 58               | 7      | 195                        | 2845                      | 6      | 165                        | 3300                      | 6      | 260                        | 1244                      |
| OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9       | A+++                    | 59               | 8      | 205                        | 3218                      | 7      | 170                        | 3976                      | 8      | 277                        | 1551                      |
| OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9    | A+++                    | 60               | 9      | 204                        | 3644                      | 8      | 170                        | 4423                      | 9      | 281                        | 1617                      |
| OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9    | A+++                    | 65               | 12     | 189                        | 5152                      | 11     | 160                        | 6870                      | 11     | 256                        | 2292                      |
| OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9    | A+++                    | 65               | 14     | 185                        | 6012                      | 13     | 160                        | 7667                      | 12     | 260                        | 2457                      |
| OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9    | A+++                    | 68               | 15     | 182                        | 6804                      | 14     | 158                        | 8431                      | 13     | 249                        | 2781                      |
| OMNIA M 3.2 Mod. 12T / 12T HI3 / 12T HI9 | A+++                    | 65               | 12     | 189                        | 5153                      | 11     | 160                        | 6871                      | 11     | 256                        | 2296                      |
| OMNIA M 3.2 Mod. 14T / 14T HI3 / 14T HI9 | A+++                    | 65               | 14     | 185                        | 6013                      | 13     | 160                        | 7667                      | 12     | 260                        | 2462                      |
| OMNIA M 3.2 Mod. 16T / 16T HI3 / 16T HI9 | A+++                    | 68               | 15     | 182                        | 6805                      | 14     | 158                        | 8431                      | 13     | 248                        | 2786                      |

| For medium - temperature application (55°C) |                         |                  |        |                            |                           |        |                            |                           |        |                            |                           |
|---------------------------------------------|-------------------------|------------------|--------|----------------------------|---------------------------|--------|----------------------------|---------------------------|--------|----------------------------|---------------------------|
| Mod                                         | Average                 |                  |        |                            |                           | Colder |                            |                           | Warmer |                            |                           |
|                                             | Energy efficiency class | Unit sound power | Prated | Seasonal energy efficiency | Annual energy consumption | Prated | Seasonal energy efficiency | Annual energy consumption | Prated | Seasonal energy efficiency | Annual energy consumption |
| OMNIA M 3.2 Mod. 4 / 4 HI3                  | A++                     | 55               | 4      | 129                        | 2744                      | 3      | 102                        | 3158                      | 5      | 163                        | 1614                      |
| OMNIA M 3.2 Mod. 6 / 6 HI3                  | A++                     | 58               | 6      | 138                        | 3345                      | 4      | 111                        | 3680                      | 5      | 165                        | 1634                      |
| OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9          | A++                     | 59               | 7      | 131                        | 4056                      | 6      | 112                        | 4948                      | 8      | 177                        | 2242                      |
| OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9       | A++                     | 60               | 8      | 136                        | 4539                      | 7      | 116                        | 5539                      | 9      | 182                        | 2496                      |
| OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9       | A++                     | 65               | 12     | 135                        | 6927                      | 10     | 118                        | 8419                      | 12     | 174                        | 3776                      |
| OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9       | A++                     | 65               | 12     | 135                        | 7202                      | 11     | 119                        | 8866                      | 14     | 177                        | 4088                      |
| OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9       | A++                     | 68               | 13     | 133                        | 7895                      | 12     | 122                        | 9309                      | 14     | 176                        | 4112                      |
| OMNIA M 3.2 Mod. 12T / 12T HI3 / 12T HI9    | A++                     | 65               | 12     | 135                        | 6928                      | 10     | 118                        | 8420                      | 12     | 174                        | 3780                      |
| OMNIA M 3.2 Mod. 14T / 14T HI3 / 14T HI9    | A++                     | 65               | 12     | 135                        | 7203                      | 11     | 119                        | 8867                      | 14     | 176                        | 4092                      |
| OMNIA M 3.2 Mod. 16T / 16T HI3 / 16T HI9    | A++                     | 68               | 13     | 133                        | 7896                      | 12     | 122                        | 9310                      | 14     | 176                        | 4116                      |

# Product fiche 1

| Heat pump space heater                                                         |                                                  |                   |       |       |       |       |       |  |
|--------------------------------------------------------------------------------|--------------------------------------------------|-------------------|-------|-------|-------|-------|-------|--|
| Unit sound power (*)                                                           |                                                  | Model OMNIA M 3.2 | 4     | 6     | 8     | 10    | 12    |  |
| Capacity of the back-up heater integrated in the unit                          | Average climate low temperature application      | [dB(A)]           | 55    | 58    | 59    | 60    | 65    |  |
|                                                                                | Average climate medium temperature application   | [dB(A)]           | 55    | 58    | 59    | 60    | 65    |  |
|                                                                                | Ps up back-up heater (optional)                  | [kW]              | 0/3   | 0/3   | 0/3/9 | 0/3/9 | 0/3/9 |  |
| Space heating                                                                  | Energy efficiency class 35°C (Low temp. app.)    | -                 | A+++  | A+++  | A+++  | A+++  | A+++  |  |
| Space heating                                                                  | Energy efficiency class 55°C (Medium temp. app.) | -                 | A++   | A++   | A++   | A++   | A++   |  |
| Average climate (Design temperature = -10°C)                                   |                                                  |                   |       |       |       |       |       |  |
| Space heating 35°C                                                             | Prated (declared heating capacity) @ -10°C       | [kW]              | 5.5   | 6.8   | 8.1   | 9.2   | 12.0  |  |
|                                                                                | Seasonal space heating efficiency (ηs)           | [%]               | 191   | 195   | 205   | 204   | 189   |  |
|                                                                                | Annual energy consumption                        | [kWh]             | 2,351 | 2,845 | 3,218 | 3644  | 5,152 |  |
| Space heating 55°C                                                             | Prated (declared heating capacity) @ -10°C       | [kW]              | 4.4   | 5.7   | 6.6   | 7.7   | 11.6  |  |
|                                                                                | Seasonal space heating efficiency (ηs)           | [%]               | 129   | 138   | 131   | 136   | 135   |  |
|                                                                                | Annual energy consumption                        | [kWh]             | 2,744 | 3,345 | 4,056 | 4,539 | 6,927 |  |
| Part load conditions space heating average climate low temperature application |                                                  |                   |       |       |       |       |       |  |
| (A) condition (-7°C)                                                           | Pdh (declared heating capacity)                  | [kW]              | 4.88  | 6.03  | 7.18  | 8.10  | 10.61 |  |
|                                                                                | COPd (declared COP)                              | -                 | 3.19  | 3.09  | 3.35  | 3.23  | 2.88  |  |
|                                                                                | Cdh(degradation coefficient)                     | -                 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |  |
| (B) condition (2°C)                                                            | Pdh (declared heating capacity)                  | [kW]              | 3.05  | 3.88  | 4.65  | 5.18  | 6.69  |  |
|                                                                                | COPd (declared COP)                              | -                 | 4.78  | 4.85  | 5.09  | 5.01  | 4.65  |  |
|                                                                                | Cdh(degradation coefficient)                     | -                 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |  |
| (C) condition (7°C)                                                            | Pdh (declared heating capacity)                  | [kW]              | 1.93  | 2.39  | 2.90  | 3.32  | 4.44  |  |
|                                                                                | COPd (declared COP)                              | -                 | 6.13  | 6.63  | 6.82  | 7.08  | 6.62  |  |
|                                                                                | Cdh(degradation coefficient)                     | -                 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |  |
| (D) condition (12°C)                                                           | Pdh (declared heating capacity)                  | [kW]              | 1.48  | 1.39  | 1.63  | 1.65  | 3.74  |  |
|                                                                                | COPd (declared COP)                              | -                 | 8.05  | 7.93  | 8.35  | 8.58  | 8.47  |  |
|                                                                                | Cdh(degradation coefficient)                     | -                 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |  |

# Product fiche 1

| Heat pump space heater                                                         |                                                  |                   |       |       |       |       |       |
|--------------------------------------------------------------------------------|--------------------------------------------------|-------------------|-------|-------|-------|-------|-------|
| Unit sound power (*)                                                           | Average climate low temperature application      | Model OMNIA M 3.2 | 14    | 16    | 12T   | 14T   | 16T   |
|                                                                                | Average climate medium temperature application   | [dB(A)]           | 65    | 68    | 65    | 65    | 68    |
| Capacity of the back-up heater integrated in the unit                          | Ps up back-up heater (optional)                  |                   | 65    | 68    | 65    | 65    | 68    |
| Space heating                                                                  | Energy efficiency class 35°C (Low temp. app.)    | [kW]              | 0/3/9 | 0/3/9 | 0/3/9 | 0/3/9 | 0/3/9 |
| Space heating                                                                  | Energy efficiency class 55°C (Medium temp. app.) | -                 | A+++  | A+++  | A+++  | A+++  | A+++  |
|                                                                                |                                                  | -                 | A++   | A++   | A++   | A++   | A++   |
| Average climate (Design temperature = −10°C)                                   |                                                  |                   |       |       |       |       |       |
| Space heating 35°C                                                             | Prated (declared heating capacity) @ −10°C       | [kW]              | 13.7  | 15.2  | 12.0  | 13.7  | 15.2  |
|                                                                                | Seasonal space heating efficiency (ηs)           | [%]               | 185   | 182   | 189   | 185   | 182   |
|                                                                                | Annual energy consumption                        | [kWh]             | 6,012 | 6,804 | 5,153 | 6,013 | 6,805 |
| Space heating 55°C                                                             | Prated (declared heating capacity) @ −10°C       | [kW]              | 12.1  | 13.0  | 11.6  | 12.1  | 13.0  |
|                                                                                | Seasonal space heating efficiency (ηs)           | [%]               | 135   | 133   | 135   | 135   | 133   |
|                                                                                | Annual energy consumption                        | [kWh]             | 7,202 | 7,895 | 6,928 | 7,203 | 7,896 |
| Part load conditions space heating average climate low temperature application |                                                  |                   |       |       |       |       |       |
| (A) condition (-7°C)                                                           | Pdh (declared heating capacity)                  | [kW]              | 12.14 | 13.45 | 10.61 | 12.14 | 13.45 |
|                                                                                | COPd (declared COP)                              | -                 | 2.79  | 2.72  | 2.88  | 2.79  | 2.72  |
|                                                                                | Cdh(degradation coefficient)                     | -                 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| (B) condition (2°C)                                                            | Pdh (declared heating capacity)                  | [kW]              | 7.94  | 8.56  | 6.69  | 7.94  | 8.56  |
|                                                                                | COPd (declared COP)                              | -                 | 4.52  | 4.41  | 4.65  | 4.52  | 4.41  |
|                                                                                | Cdh(degradation coefficient)                     | -                 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| (C) condition (7°C)                                                            | Pdh (declared heating capacity)                  | [kW]              | 5.20  | 5.70  | 4.44  | 5.20  | 5.70  |
|                                                                                | COPd (declared COP)                              | -                 | 6.68  | 6.56  | 6.62  | 6.68  | 6.56  |
|                                                                                | Cdh(degradation coefficient)                     | -                 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| (D) condition (12°C)                                                           | Pdh (declared heating capacity)                  | [kW]              | 3.75  | 3.78  | 3.74  | 3.75  | 3.78  |
|                                                                                | COPd (declared COP)                              | -                 | 8.52  | 8.51  | 8.47  | 8.52  | 8.51  |
|                                                                                | Cdh(degradation coefficient)                     | -                 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |

## Product fiche 2

| Heat pump space heater                                                            |                                      | Model<br>OMNIA M 3.2 | 4      | 6      | 8      | 10     | 12     |
|-----------------------------------------------------------------------------------|--------------------------------------|----------------------|--------|--------|--------|--------|--------|
| (E) Tol (temperature operating limit)                                             | Tol (temperature operating limit)    | [°C]                 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 |
|                                                                                   | Pdh (declared heating capacity)      | [kW]                 | 4.41   | 5.36   | 6.44   | 7.40   | 10.74  |
|                                                                                   | COPd (declared COP)                  | -                    | 2.86   | 2.76   | 3.04   | 2.96   | 2.77   |
|                                                                                   | WTOL (Heating water Operation Limit) | [°C]                 | 60.00  | 60.00  | 60.00  | 60.00  | 60.00  |
| (F) Tivalent temperature                                                          | Tblv                                 | [°C]                 | -7.00  | -7.00  | -7.00  | -7.00  | -7.00  |
|                                                                                   | Pdh (declared heating capacity)      | [kW]                 | 4.88   | 6.03   | 7.18   | 8.10   | 10.61  |
|                                                                                   | COPd (declared COP)                  | -                    | 3.19   | 3.09   | 3.35   | 3.23   | 2.88   |
|                                                                                   | Psup (@Tdesignh: -10°C)              | [kW]                 | 1.11   | 1.45   | 1.68   | 1.76   | 1.26   |
| Part load conditions space heating average climate medium temperature application |                                      |                      |        |        |        |        |        |
| (A) condition (-7°C)                                                              | Pdh (declared heating capacity)      | [kW]                 | 3.89   | 5.04   | 5.84   | 6.78   | 10.24  |
|                                                                                   | COPd (declared COP)                  | -                    | 2.17   | 2.17   | 2.16   | 2.24   | 2.01   |
|                                                                                   | Cdh(degradation coefficient)         | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                   | Pdh (declared heating capacity)      | [kW]                 | 2.38   | 3.12   | 3.76   | 4.28   | 6.52   |
| (B) condition (2°C)                                                               | COPd (declared COP)                  | -                    | 3.30   | 3.51   | 3.30   | 3.42   | 3.44   |
|                                                                                   | Cdh(degradation coefficient)         | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                   | Pdh (declared heating capacity)      | [kW]                 | 2.94   | 2.08   | 2.43   | 2.77   | 4.36   |
|                                                                                   | COPd (declared COP)                  | -                    | 4.41   | 4.54   | 4.34   | 4.52   | 4.59   |
| (C) condition (7°C)                                                               | Cdh(degradation coefficient)         | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                   | Pdh (declared heating capacity)      | [kW]                 | 1.32   | 1.28   | 1.39   | 1.58   | 3.29   |
|                                                                                   | COPd (declared COP)                  | -                    | 5.66   | 5.59   | 5.33   | 5.68   | 6.05   |
|                                                                                   | Cdh(degradation coefficient)         | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (D) condition (12°C)                                                              | Tol (temperature operating limit)    | [°C]                 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 |
|                                                                                   | Pdh (declared heating capacity)      | [kW]                 | 3.42   | 4.52   | 4.91   | 5.38   | 9.10   |
|                                                                                   | COPd (declared COP)                  | -                    | 1.91   | 1.91   | 1.84   | 1.83   | 1.79   |
|                                                                                   | WTOL (Heating water Operation Limit) | [°C]                 | 60.00  | 60.00  | 60.00  | 60.00  | 60.00  |
| (E) Tol (temperature operating limit)                                             | Tblv                                 | [°C]                 | -7.00  | -7.00  | -7.00  | -7.00  | -7.00  |
|                                                                                   | Pdh (declared heating capacity)      | [kW]                 | 3.89   | 5.04   | 5.84   | 6.78   | 10.27  |
|                                                                                   | COPd (declared COP)                  | -                    | 2.17   | 2.17   | 2.16   | 2.24   | 2.01   |
|                                                                                   | Cdh(degradation coefficient)         | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |

## Product fiche 2

| Heat pump space heater                                                            |                                                  | Model<br>OMNIA M 3.2 | 14     | 16     | 12T    | 14T    | 16T    |
|-----------------------------------------------------------------------------------|--------------------------------------------------|----------------------|--------|--------|--------|--------|--------|
| (E) Tol (temperature operating limit)                                             | Tol (temperature operating limit)                | [°C]                 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 |
|                                                                                   | P <sub>dh</sub> (declared heating capacity)      | [kW]                 | 11.47  | 12.52  | 10.74  | 11.47  | 12.52  |
|                                                                                   | COP <sub>d</sub> (declared COP)                  | -                    | 2.59   | 2.48   | 2.77   | 2.59   | 2.48   |
|                                                                                   | WTOL (Heating water Operation Limit)             | [°C]                 | 60.00  | 60.00  | 60.00  | 60.00  | 60.00  |
| (F) Tivalent temperature                                                          | T <sub>blv</sub>                                 | [°C]                 | -7.00  | -7.00  | -7.00  | -7.00  | -7.00  |
|                                                                                   | P <sub>dh</sub> (declared heating capacity)      | [kW]                 | 12.14  | 13.45  | 10.61  | 12.14  | 13.45  |
|                                                                                   | COP <sub>d</sub> (declared COP)                  | -                    | 2.79   | 2.72   | 2.88   | 2.79   | 2.72   |
|                                                                                   | P <sub>sup</sub> (@T <sub>designh</sub> : -10°C) | [kW]                 | 2.23   | 2.68   | 1.26   | 2.23   | 2.68   |
| Part load conditions space heating average climate medium temperature application |                                                  |                      |        |        |        |        |        |
| (A) condition (-7°C)                                                              | P <sub>dh</sub> (declared heating capacity)      | [kW]                 | 10.68  | 11.52  | 10.24  | 10.68  | 11.52  |
|                                                                                   | COP <sub>d</sub> (declared COP)                  | -                    | 2.01   | 1.99   | 2.01   | 2.01   | 1.99   |
|                                                                                   | C <sub>dh</sub> (degradation coefficient)        | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                   | P <sub>dh</sub> (declared heating capacity)      | [kW]                 | 6.86   | 7.18   | 6.52   | 6.86   | 7.18   |
| (B) condition (2°C)                                                               | COP <sub>d</sub> (declared COP)                  | -                    | 3.43   | 3.34   | 3.44   | 3.43   | 3.34   |
|                                                                                   | C <sub>dh</sub> (degradation coefficient)        | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                   | P <sub>dh</sub> (declared heating capacity)      | [kW]                 | 4.63   | 4.67   | 4.36   | 4.63   | 4.67   |
|                                                                                   | COP <sub>d</sub> (declared COP)                  | -                    | 4.66   | 4.61   | 4.59   | 4.66   | 4.61   |
| (C) condition (7°C)                                                               | C <sub>dh</sub> (degradation coefficient)        | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                   | P <sub>dh</sub> (declared heating capacity)      | [kW]                 | 3.31   | 3.32   | 3.29   | 3.31   | 3.32   |
|                                                                                   | COP <sub>d</sub> (declared COP)                  | -                    | 6.13   | 6.07   | 6.05   | 6.13   | 6.07   |
|                                                                                   | C <sub>dh</sub> (degradation coefficient)        | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (D) condition (12°C)                                                              | Tol (temperature operating limit)                | [°C]                 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 |
|                                                                                   | P <sub>dh</sub> (declared heating capacity)      | [kW]                 | 9.19   | 10.33  | 9.10   | 9.19   | 10.33  |
|                                                                                   | COP <sub>d</sub> (declared COP)                  | -                    | 1.76   | 1.80   | 1.79   | 1.76   | 1.80   |
|                                                                                   | WTOL (Heating water Operation Limit)             | [°C]                 | 60.00  | 60.00  | 60.00  | 60.00  | 60.00  |
| (E) Tol (temperature operating limit)                                             | T <sub>blv</sub>                                 | [°C]                 | -7.00  | -7.00  | -7.00  | -7.00  | -7.00  |
|                                                                                   | P <sub>dh</sub> (declared heating capacity)      | [kW]                 | 10.68  | 11.52  | 10.27  | 10.68  | 11.52  |
|                                                                                   | COP <sub>d</sub> (declared COP)                  | -                    | 2.01   | 1.99   | 2.01   | 2.01   | 1.99   |
|                                                                                   | P <sub>sup</sub> (@T <sub>designh</sub> : -10°C) | [kW]                 | 2.91   | 2.67   | 2.50   | 2.91   | 2.67   |

# Product fiche 3

| Heat pump space heater                                                        |                                                     | Model | 4      | 6      | 8      | 10     | 12     |
|-------------------------------------------------------------------------------|-----------------------------------------------------|-------|--------|--------|--------|--------|--------|
| Supplementary capacity at P <sub>design</sub>                                 | P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)    | [kW]  | 0.98   | 1.18   | 1.69   | 2.28   | 2.50   |
| Colder climate (Design temperature = -22°C)                                   |                                                     |       |        |        |        |        |        |
| Space heating 35°C                                                            | Prated (declared heating capacity) @ -22°C          | [kW]  | 4.6    | 5.6    | 7.0    | 7.7    | 11.4   |
|                                                                               | Seasonal space heating efficiency (η <sub>s</sub> ) | [%]   | 160    | 165    | 170    | 170    | 160    |
|                                                                               | Annual energy consumption                           | [kWh] | 2,769  | 3,300  | 3,976  | 4,423  | 6,870  |
| Space heating 55°C                                                            | Prated (declared heating capacity) @ -22°C          | [kW]  | 3.4    | 4.3    | 5.8    | 6.7    | 10.3   |
|                                                                               | Seasonal space heating efficiency (η <sub>s</sub> ) | [%]   | 102    | 111    | 112    | 116    | 118    |
|                                                                               | Annual energy consumption                           | [kWh] | 3,158  | 3,680  | 4,948  | 5,539  | 8,419  |
| Part load conditions space heating colder climate low temperature application |                                                     |       |        |        |        |        |        |
| (A) condition (-7°C)                                                          | P <sub>d</sub> h (declared heating capacity)        | [kW]  | 2.75   | 3.42   | 4.46   | 4.83   | 7.05   |
|                                                                               | COP <sub>d</sub> (declared COP)                     | -     | 3.49   | 3.59   | 3.66   | 3.60   | 3.48   |
|                                                                               | C <sub>d</sub> h (degradation coefficient)          | -     | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (B) condition (2°C)                                                           | P <sub>d</sub> h (declared heating capacity)        | [kW]  | 1.77   | 2.06   | 2.69   | 2.94   | 4.67   |
|                                                                               | COP <sub>d</sub> (declared COP)                     | -     | 4.95   | 5.21   | 5.20   | 5.26   | 4.96   |
|                                                                               | C <sub>d</sub> h (degradation coefficient)          | -     | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (C) condition (7°C)                                                           | P <sub>d</sub> h (declared heating capacity)        | [kW]  | 1.17   | 1.46   | 1.65   | 1.92   | 3.14   |
|                                                                               | COP <sub>d</sub> (declared COP)                     | -     | 5.53   | 6.24   | 6.53   | 7.08   | 6.10   |
|                                                                               | C <sub>d</sub> h (degradation coefficient)          | -     | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (D) condition (12°C)                                                          | P <sub>d</sub> h (declared heating capacity)        | [kW]  | 1.43   | 1.44   | 1.65   | 1.65   | 3.57   |
|                                                                               | COP <sub>d</sub> (declared COP)                     | -     | 7.67   | 7.66   | 7.96   | 7.96   | 7.87   |
|                                                                               | C <sub>d</sub> h (degradation coefficient)          | -     | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (E) Tol (temperature operating limit)                                         | Tol (temperature operating limit)                   | [°C]  | -22.00 | -22.00 | -22.00 | -22.00 | -22.00 |
|                                                                               | P <sub>d</sub> h (declared heating capacity)        | [kW]  | 2.80   | 3.48   | 4.06   | 4.62   | 7.01   |
|                                                                               | COP <sub>d</sub> (declared COP)                     | -     | 1.97   | 1.96   | 1.95   | 1.97   | 1.98   |
|                                                                               | WTOL (Heating water Operation Limit)                | [°C]  | 51.00  | 51.00  | 51.00  | 51.00  | 51.00  |
| (F) Tivalent temperature                                                      | T <sub>blv</sub>                                    | [°C]  | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 |
|                                                                               | P <sub>d</sub> h (declared heating capacity)        | [kW]  | 3.72   | 4.59   | 5.69   | 6.32   | 9.28   |
|                                                                               | COP <sub>d</sub> (declared COP)                     | -     | 2.57   | 2.53   | 2.83   | 2.64   | 2.59   |
| Supplementary capacity at P <sub>design</sub>                                 | P <sub>sup</sub> (@T <sub>designh</sub> : -22°C)    | [kW]  | 1.76   | 2.15   | 2.91   | 3.08   | 4.40   |

# Product fiche 3

| Heat pump space heater                                                        |                                                        | Model<br>OMNIA M 3.2 | 14     | 16     | 12T    | 14T    | 16T    |
|-------------------------------------------------------------------------------|--------------------------------------------------------|----------------------|--------|--------|--------|--------|--------|
| Colder climate (Design temperature = -22°C)                                   |                                                        |                      |        |        |        |        |        |
| Space heating 35°C                                                            | P <sub>rated</sub> (declared heating capacity) @ -22°C | [kW]                 | 12.6   | 13.7   | 11.4   | 12.6   | 13.7   |
|                                                                               | Seasonal space heating efficiency (η <sub>s</sub> )    | [%]                  | 160    | 158    | 160    | 160    | 158    |
|                                                                               | Annual energy consumption                              | [kWh]                | 7,667  | 8,431  | 6,871  | 7,667  | 8,431  |
| Space heating 55°C                                                            | P <sub>rated</sub> (declared heating capacity) @ -22°C | [kW]                 | 11.0   | 11.8   | 10.3   | 11.0   | 11.8   |
|                                                                               | Seasonal space heating efficiency (η <sub>s</sub> )    | [%]                  | 119    | 122    | 118    | 119    | 122    |
|                                                                               | Annual energy consumption                              | [kWh]                | 8,866  | 9,309  | 8,420  | 8,867  | 9,310  |
| Part load conditions space heating colder climate low temperature application |                                                        |                      |        |        |        |        |        |
| (A) condition (-7°C)                                                          | P <sub>dh</sub> (declared heating capacity)            | [kW]                 | 7.96   | 8.31   | 7.05   | 7.96   | 8.31   |
|                                                                               | COP <sub>d</sub> (declared COP)                        | -                    | 3.44   | 3.37   | 3.48   | 3.44   | 3.37   |
|                                                                               | C <sub>dh</sub> (degradation coefficient)              | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (B) condition (2°C)                                                           | P <sub>dh</sub> (declared heating capacity)            | [kW]                 | 5.05   | 5.26   | 4.67   | 5.05   | 5.26   |
|                                                                               | COP <sub>d</sub> (declared COP)                        | -                    | 4.92   | 4.86   | 4.96   | 4.92   | 4.86   |
|                                                                               | C <sub>dh</sub> (degradation coefficient)              | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (C) condition (7°C)                                                           | P <sub>dh</sub> (declared heating capacity)            | [kW]                 | 3.15   | 3.62   | 3.14   | 3.15   | 3.62   |
|                                                                               | COP <sub>d</sub> (declared COP)                        | -                    | 6.11   | 6.49   | 6.10   | 6.11   | 6.49   |
|                                                                               | C <sub>dh</sub> (degradation coefficient)              | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (D) condition (12°C)                                                          | P <sub>dh</sub> (declared heating capacity)            | [kW]                 | 3.57   | 3.34   | 3.57   | 3.57   | 3.34   |
|                                                                               | COP <sub>d</sub> (declared COP)                        | -                    | 7.82   | 7.40   | 7.87   | 7.82   | 7.40   |
|                                                                               | C <sub>dh</sub> (degradation coefficient)              | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (E) Tol (temperature operating limit)                                         | Tol (temperature operating limit)                      | [°C]                 | -22.00 | -22.00 | -22.00 | -22.00 | -22.00 |
|                                                                               | P <sub>dh</sub> (declared heating capacity)            | [kW]                 | 7.57   | 8.88   | 7.01   | 7.57   | 8.88   |
|                                                                               | COP <sub>d</sub> (declared COP)                        | -                    | 1.92   | 1.97   | 1.98   | 1.92   | 1.97   |
| (F) Tivalent temperature                                                      | WTOL (Heating water Operation Limit)                   | [°C]                 | 51.00  | 51.00  | 51.00  | 51.00  | 51.00  |
|                                                                               | T <sub>blv</sub>                                       | [°C]                 | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 |
|                                                                               | P <sub>dh</sub> (declared heating capacity)            | [kW]                 | 10.31  | 11.22  | 9.28   | 10.31  | 11.22  |
| Supplementary capacity at P <sub>design</sub>                                 | COP <sub>d</sub> (declared COP)                        | -                    | 2.53   | 2.43   | 2.59   | 2.53   | 2.43   |
|                                                                               | P <sub>sup</sub> (@T <sub>designh</sub> : -22°C)       | [kW]                 | 5.03   | 4.82   | 4.40   | 5.03   | 4.82   |

# Product fiche 4

| Heat pump space heater                                                           |                                          |       |        |        |        |        |        |  |  |
|----------------------------------------------------------------------------------|------------------------------------------|-------|--------|--------|--------|--------|--------|--|--|
| Part load conditions space heating colder climate medium temperature application |                                          |       |        |        |        |        |        |  |  |
|                                                                                  | Model<br>OMNIA M 3.2                     | 4     | 6      | 8      | 10     | 12     |        |  |  |
| (A) condition (-7°C)                                                             | Pdh (declared heating capacity)          | [kW]  | 2.13   | 2.69   | 3.86   | 4.27   | 6.63   |  |  |
|                                                                                  | COPd (declared COP)                      | -     | 2.32   | 2.46   | 2.48   | 2.54   | 2.63   |  |  |
|                                                                                  | Cdh(degradation coefficient)             | -     | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |  |  |
|                                                                                  | Pdh (declared heating capacity)          | [kW]  | 1.28   | 1.60   | 2.21   | 2.57   | 4.06   |  |  |
| (B) condition (2°C)                                                              | COPd (declared COP)                      | -     | 2.99   | 3.36   | 3.35   | 3.51   | 3.60   |  |  |
|                                                                                  | Cdh(degradation coefficient)             | -     | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |  |  |
|                                                                                  | Pdh (declared heating capacity)          | [kW]  | 1.01   | 1.02   | 1.44   | 1.65   | 2.78   |  |  |
|                                                                                  | COPd (declared COP)                      | -     | 3.86   | 3.94   | 4.11   | 4.37   | 4.54   |  |  |
| (C) condition (7°C)                                                              | Cdh(degradation coefficient)             | -     | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |  |  |
|                                                                                  | Pdh (declared heating capacity)          | [kW]  | 1.36   | 1.37   | 1.47   | 1.48   | 3.33   |  |  |
|                                                                                  | COPd (declared COP)                      | -     | 6.28   | 6.35   | 5.92   | 5.96   | 6.25   |  |  |
|                                                                                  | Cdh(degradation coefficient)             | -     | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |  |  |
| (D) condition (12°C)                                                             | Tol (temperature operating limit)        | [°C]  | -22.00 | -22.00 | -22.00 | -22.00 | -22.00 |  |  |
|                                                                                  | Pdh (declared heating capacity)          | [kW]  | 1.64   | 2.09   | 2.80   | 2.80   | 4.19   |  |  |
|                                                                                  | COPd (declared COP)                      | -     | 1.02   | 1.13   | 1.22   | 1.22   | 1.13   |  |  |
|                                                                                  | WTOL (Heating water Operation Limit)     | [°C]  | 51.00  | 51.00  | 51.00  | 51.00  | 51.00  |  |  |
| (E) Tbil temperature                                                             | Tbilv                                    | [°C]  | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 |  |  |
|                                                                                  | Pdh (declared heating capacity)          | [kW]  | 2.74   | 3.47   | 4.71   | 5.47   | 8.41   |  |  |
|                                                                                  | COPd (declared COP)                      | -     | 1.74   | 1.86   | 1.90   | 2.00   | 1.84   |  |  |
|                                                                                  | Psup (@Tdesignh: -22°C)                  | [kW]  | 1.72   | 2.17   | 2.97   | 3.91   | 6.12   |  |  |
| Warmer climate (Design temperature = 2°C)                                        |                                          |       |        |        |        |        |        |  |  |
| Space heating 35°C                                                               | Prated (declared heating capacity) @ 2°C | [kW]  | 5.5    | 6.1    | 8.1    | 8.6    | 11.1   |  |  |
|                                                                                  | Seasonal space heating efficiency (ηs)   | [%]   | 255    | 260    | 277    | 281    | 256    |  |  |
|                                                                                  | Annual energy consumption                | [kWh] | 1,146  | 1,244  | 1,551  | 1,617  | 2,292  |  |  |
|                                                                                  | Prated (declared heating capacity) @ 2°C | [kW]  | 5.0    | 5.1    | 7.6    | 8.6    | 12.5   |  |  |
| Space heating 55°C                                                               | Seasonal space heating efficiency (ηs)   | [%]   | 163    | 165    | 177    | 182    | 174    |  |  |
|                                                                                  | Annual energy consumption                | [kWh] | 1,614  | 1,634  | 2,242  | 2,496  | 3,776  |  |  |

# Product fiche 4

| Heat pump space heater                                                           |                                                      | Model<br>OMNIA M 3.2 | 14     | 16     | 12T    | 14T    | 16T    |
|----------------------------------------------------------------------------------|------------------------------------------------------|----------------------|--------|--------|--------|--------|--------|
| Part load conditions space heating colder climate medium temperature application |                                                      |                      |        |        |        |        |        |
| (A) condition (-7°C)                                                             | P <sub>dh</sub> (declared heating capacity)          | [kW]                 | 6.89   | 7.64   | 6.63   | 6.89   | 7.64   |
|                                                                                  | COP <sub>d</sub> (declared COP)                      | -                    | 2.66   | 2.65   | 2.63   | 2.66   | 2.65   |
|                                                                                  | C <sub>dh</sub> (degradation coefficient)            | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)          | [kW]                 | 4.32   | 4.42   | 4.06   | 4.32   | 4.42   |
| (B) condition (2°C)                                                              | COP <sub>d</sub> (declared COP)                      | -                    | 3.66   | 3.79   | 3.60   | 3.66   | 3.79   |
|                                                                                  | C <sub>dh</sub> (degradation coefficient)            | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)          | [kW]                 | 3.06   | 2.97   | 2.78   | 3.06   | 2.97   |
|                                                                                  | COP <sub>d</sub> (declared COP)                      | -                    | 4.72   | 4.81   | 4.54   | 4.72   | 4.81   |
| (C) condition (7°C)                                                              | C <sub>dh</sub> (degradation coefficient)            | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)          | [kW]                 | 3.33   | 3.43   | 3.33   | 3.33   | 3.43   |
|                                                                                  | COP <sub>d</sub> (declared COP)                      | -                    | 6.25   | 6.29   | 6.25   | 6.25   | 6.29   |
|                                                                                  | C <sub>dh</sub> (degradation coefficient)            | -                    | 0.90   | 0.90   | 0.90   | 0.90   | 0.90   |
| (E) Tol (temperature operating limit)                                            | Tol (temperature operating limit)                    | [°C]                 | -22.00 | -22.00 | -22.00 | -22.00 | -22.00 |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)          | [kW]                 | 4.20   | 5.21   | 4.19   | 4.20   | 5.21   |
|                                                                                  | COP <sub>d</sub> (declared COP)                      | -                    | 1.13   | 1.23   | 1.13   | 1.13   | 1.23   |
|                                                                                  | WTOL (Heating water Operation Limit)                 | [°C]                 | 51.00  | 51.00  | 51.00  | 51.00  | 51.00  |
| (F) Tivalent temperature                                                         | T <sub>biv</sub>                                     | [°C]                 | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)          | [kW]                 | 8.94   | 9.61   | 8.41   | 8.94   | 9.61   |
|                                                                                  | COP <sub>d</sub> (declared COP)                      | -                    | 1.79   | 1.86   | 1.84   | 1.79   | 1.86   |
|                                                                                  | P <sub>sup</sub> (@T <sub>designh</sub> : -22°C)     | [kW]                 | 6.76   | 6.59   | 6.12   | 6.76   | 6.59   |
| Warmer climate (Design temperature = 2°C)                                        |                                                      |                      |        |        |        |        |        |
| Space heating 35°C                                                               | P <sub>rated</sub> (declared heating capacity) @ 2°C | [kW]                 | 12.1   | 13.1   | 11.1   | 12.1   | 13.1   |
|                                                                                  | Seasonal space heating efficiency (η <sub>s</sub> )  | [%]                  | 260    | 249    | 256    | 260    | 248    |
|                                                                                  | Annual energy consumption                            | [kWh]                | 2,457  | 2,781  | 2,296  | 2,462  | 2,786  |
|                                                                                  | P <sub>rated</sub> (declared heating capacity) @ 2°C | [kW]                 | 13.7   | 13.8   | 12.5   | 13.7   | 13.8   |
| Space heating 55°C                                                               | Seasonal space heating efficiency (η <sub>s</sub> )  | [%]                  | 177    | 176    | 174    | 176    | 176    |
|                                                                                  | Annual energy consumption                            | [kWh]                | 4,088  | 4,112  | 3,780  | 4,092  | 4,116  |

# Product fiche 5

| Heat pump space heater                                                           |                                      | Model<br>OMNIA M 3.2 | 4     | 6     | 8     | 10    | 12    |
|----------------------------------------------------------------------------------|--------------------------------------|----------------------|-------|-------|-------|-------|-------|
| Part load conditions space heating warmer climate low temperature application    |                                      |                      |       |       |       |       |       |
| (B) condition (2°C)                                                              | Pdh (declared heating capacity)      | [kW]                 | 5.34  | 5.93  | 7.56  | 8.44  | 11.26 |
|                                                                                  | COPd (declared COP)                  | -                    | 3.94  | 3.91  | 3.98  | 3.84  | 3.59  |
|                                                                                  | Cdh(degradation coefficient)         | -                    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| (C) condition (7°C)                                                              | Pdh (declared heating capacity)      | [kW]                 | 3.56  | 3.93  | 5.22  | 5.52  | 7.14  |
|                                                                                  | COPd (declared COP)                  | -                    | 5.92  | 5.89  | 6.26  | 6.18  | 5.87  |
|                                                                                  | Cdh(degradation coefficient)         | -                    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| (D) condition (12°C)                                                             | Pdh (declared heating capacity)      | [kW]                 | 1.63  | 1.79  | 2.62  | 2.62  | 3.55  |
|                                                                                  | COPd (declared COP)                  | -                    | 7.91  | 8.20  | 9.23  | 9.04  | 7.94  |
|                                                                                  | Cdh(degradation coefficient)         | -                    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| (E) Tol (temperature operating limit)                                            | Tol (temperature operating limit)    | [°C]                 | 2.00  | 2.00  | 2.00  | 2.00  | 2.00  |
|                                                                                  | Pdh (declared heating capacity)      | [kW]                 | 5.34  | 5.93  | 7.56  | 8.44  | 11.26 |
|                                                                                  | COPd (declared COP)                  | -                    | 3.94  | 3.91  | 3.98  | 3.84  | 3.59  |
| (F) Tivalent temperature                                                         | WTOL (Heating water Operation Limit) | [°C]                 | 62.00 | 62.00 | 62.00 | 62.00 | 62.00 |
|                                                                                  | Tbiv                                 | [°C]                 | 7.00  | 7.00  | 7.00  | 7.00  | 7.00  |
|                                                                                  | Pdh (declared heating capacity)      | [kW]                 | 3.56  | 3.93  | 5.22  | 5.52  | 7.14  |
| Supplementary capacity at P_design                                               | COPd (declared COP)                  | -                    | 5.92  | 5.89  | 6.26  | 6.18  | 5.87  |
|                                                                                  | Psup (@Tdesignh: 2°C)                | [kW]                 | 0.18  | 0.18  | 0.55  | 0.14  | 0.00  |
| Part load conditions space heating warmer climate medium temperature application |                                      |                      |       |       |       |       |       |
| (B) condition (2°C)                                                              | Pdh (declared heating capacity)      | [kW]                 | 4.83  | 5.02  | 7.55  | 8.06  | 12.07 |
|                                                                                  | COPd (declared COP)                  | -                    | 2.51  | 2.48  | 2.59  | 2.59  | 2.31  |
|                                                                                  | Cdh(degradation coefficient)         | -                    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| (C) condition (7°C)                                                              | Pdh (declared heating capacity)      | [kW]                 | 3.22  | 3.31  | 4.86  | 5.54  | 8.04  |
|                                                                                  | COPd (declared COP)                  | -                    | 3.68  | 3.67  | 3.92  | 4.10  | 3.86  |
|                                                                                  | Cdh(degradation coefficient)         | -                    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| (D) condition (12°C)                                                             | Pdh (declared heating capacity)      | [kW]                 | 1.47  | 1.59  | 2.32  | 2.53  | 3.75  |
|                                                                                  | COPd (declared COP)                  | -                    | 5.15  | 5.29  | 5.55  | 5.82  | 5.70  |
|                                                                                  | Cdh(degradation coefficient)         | -                    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |

# Product fiche 5

| Heat pump space heater                                                           |                                                |      |       |       |       |       |       |       |       |
|----------------------------------------------------------------------------------|------------------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| Part load conditions space heating warmer climate low temperature application    |                                                |      |       |       |       |       |       |       |       |
| (B) condition (2°C)                                                              | P <sub>dh</sub> (declared heating capacity)    | [kW] | 12.04 | 13.10 | 11.26 | 12.04 | 13.10 | 12.04 | 13.10 |
|                                                                                  | COP <sub>d</sub> (declared COP)                | -    | 3.44  | 3.35  | 3.59  | 3.44  | 3.35  | 3.44  | 3.35  |
|                                                                                  | C <sub>dh</sub> (degradation coefficient)      | -    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)    | [kW] | 7.78  | 8.41  | 7.14  | 7.78  | 8.41  | 7.78  | 8.41  |
| (C) condition (7°C)                                                              | COP <sub>d</sub> (declared COP)                | -    | 5.84  | 5.36  | 5.87  | 5.84  | 5.36  | 5.84  | 5.36  |
|                                                                                  | C <sub>dh</sub> (degradation coefficient)      | -    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)    | [kW] | 3.75  | 3.87  | 3.55  | 3.75  | 3.87  | 3.75  | 3.87  |
|                                                                                  | COP <sub>d</sub> (declared COP)                | -    | 8.25  | 8.11  | 7.94  | 8.25  | 8.11  | 8.25  | 8.11  |
| (D) condition (12°C)                                                             | C <sub>dh</sub> (degradation coefficient)      | -    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
|                                                                                  | Tol (temperature operating limit)              | [°C] | 2.00  | 2.00  | 2.00  | 2.00  | 2.00  | 2.00  | 2.00  |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)    | [kW] | 12.04 | 13.10 | 11.26 | 12.04 | 13.10 | 12.04 | 13.10 |
|                                                                                  | COP <sub>d</sub> (declared COP)                | -    | 3.44  | 3.35  | 3.59  | 3.44  | 3.35  | 3.44  | 3.35  |
| (E) Tol (temperature operating limit)                                            | WTOL (Heating water Operation Limit)           | [°C] | 62.00 | 62.00 | 62.00 | 62.00 | 62.00 | 62.00 | 62.00 |
|                                                                                  | T <sub>biv</sub>                               | [°C] | 7.00  | 7.00  | 7.00  | 7.00  | 7.00  | 7.00  | 7.00  |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)    | [kW] | 7.78  | 8.41  | 7.14  | 7.78  | 8.41  | 7.78  | 8.41  |
|                                                                                  | COP <sub>d</sub> (declared COP)                | -    | 5.84  | 5.36  | 5.87  | 5.84  | 5.36  | 5.84  | 5.36  |
| Supplementary capacity at P <sub>design</sub>                                    | P <sub>sup</sub> (@T <sub>design</sub> h: 2°C) | [kW] | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Part load conditions space heating warmer climate medium temperature application |                                                |      |       |       |       |       |       |       |       |
| (B) condition (2°C)                                                              | P <sub>dh</sub> (declared heating capacity)    | [kW] | 13.04 | 13.38 | 12.07 | 13.04 | 13.38 | 13.04 | 13.38 |
|                                                                                  | COP <sub>d</sub> (declared COP)                | -    | 2.20  | 2.29  | 2.31  | 2.20  | 2.29  | 2.20  | 2.29  |
|                                                                                  | C <sub>dh</sub> (degradation coefficient)      | -    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)    | [kW] | 8.83  | 8.86  | 8.04  | 8.83  | 8.86  | 8.83  | 8.86  |
| (C) condition (7°C)                                                              | COP <sub>d</sub> (declared COP)                | -    | 3.91  | 3.84  | 3.86  | 3.91  | 3.84  | 3.91  | 3.84  |
|                                                                                  | C <sub>dh</sub> (degradation coefficient)      | -    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
|                                                                                  | P <sub>dh</sub> (declared heating capacity)    | [kW] | 4.08  | 4.06  | 3.75  | 4.08  | 4.06  | 4.08  | 4.06  |
|                                                                                  | COP <sub>d</sub> (declared COP)                | -    | 5.90  | 5.86  | 5.70  | 5.90  | 5.86  | 5.90  | 5.86  |
| (D) condition (12°C)                                                             | C <sub>dh</sub> (degradation coefficient)      | -    | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |

# Product fiche 6

| Heat pump space heater             |                                                                                                                              | Model<br>OMNIA M 3.2 | 4        | 6        | 8        | 10       | 12       |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|----------|----------|----------|----------|
| (E) Temperature operating limit    | Tol (temperature operating limit)                                                                                            | [°C]                 | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     |
|                                    | Pdh (declared heating capacity)                                                                                              | [kW]                 | 4.83     | 5.02     | 7.83     | 8.15     | 12.07    |
|                                    | COPd (declared COP)                                                                                                          | -                    | 2.51     | 2.48     | 2.66     | 2.61     | 2.31     |
|                                    | WTOL (Heating water Operation Limit)                                                                                         | [°C]                 | 62.00    | 62.00    | 62.00    | 62.00    | 62.00    |
| (F) Bivalent temperature           | Tblv                                                                                                                         | [°C]                 | 7.00     | 7.00     | 7.00     | 7.00     | 7.00     |
|                                    | Pdh (declared heating capacity)                                                                                              | [kW]                 | 3.22     | 3.31     | 4.86     | 5.54     | 8.04     |
|                                    | COPd (declared COP)                                                                                                          | -                    | 3.68     | 3.67     | 3.92     | 4.10     | 3.86     |
|                                    | Psup (@Tdesignh: 2°C)                                                                                                        | [kW]                 | 0.18     | 0.12     | 0.00     | 0.48     | 0.43     |
| Supplementary capacity at P_design |                                                                                                                              |                      |          |          |          |          |          |
| 0                                  |                                                                                                                              |                      |          |          |          |          |          |
| Product description                | Air-to-water heat pump                                                                                                       | Y/N                  | Yes      | Yes      | Yes      | Yes      | Yes      |
|                                    | Water-to-water heat pump                                                                                                     | Y/N                  | No       | No       | No       | No       | No       |
|                                    | Brine-to-water heat pump                                                                                                     | Y/N                  | No       | No       | No       | No       | No       |
|                                    | Low-temperature heat pump                                                                                                    | Y/N                  | No       | No       | No       | No       | No       |
|                                    | Equipped with a supplementary heater                                                                                         | Y/N                  | Yes      | Yes      | Yes      | Yes      | Yes      |
|                                    | Heat pump combination heater                                                                                                 | Y/N                  | No       | No       | No       | No       | No       |
|                                    | Rated airflow                                                                                                                | [m³/h]               | 2770     | 2770     | 4030     | 4030     | 4060     |
|                                    | Rated water/brine flow (outdoor H/E)                                                                                         |                      | /        | /        | /        | /        | /        |
|                                    | Capacity control                                                                                                             | -                    | Inverter | Inverter | Inverter | Inverter | Inverter |
|                                    | Poff (Power consumption Off mode)                                                                                            | [kW]                 | 0.014    | 0.014    | 0.014    | 0.014    | 0.014    |
| Other                              | Plo (Power consumption Thermostat off mode)                                                                                  | [kW]                 | 0.024    | 0.024    | 0.024    | 0.024    | 0.024    |
|                                    | Psb (Power consumption Standby mode)                                                                                         | [kW]                 | 0.014    | 0.014    | 0.014    | 0.014    | 0.014    |
|                                    | PCK (Power crankcase heater mode I)                                                                                          | [kW]                 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
|                                    | Qelec (Daily electricity consumption)                                                                                        | [kWh]                | /        | /        | /        | /        | /        |
|                                    | Qfuel (Daily fuel consumption)                                                                                               | [kWh]                | /        | /        | /        | /        | /        |
|                                    | Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals. |                      |          |          |          |          |          |

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

## Product fiche 6

| Heat pump space heater                        |                                                         | Model<br>OMNIA M 3.2 | 14       | 16       | 12T      | 14T      | 16T      |
|-----------------------------------------------|---------------------------------------------------------|----------------------|----------|----------|----------|----------|----------|
| (E) Tol (temperature operating limit)         | Tol (temperature operating limit)                       | [°C]                 | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     |
|                                               | P <sub>dh</sub> (declared heating capacity)             | [kW]                 | 13.04    | 13.38    | 12.07    | 13.04    | 13.38    |
|                                               | COP <sub>d</sub> (declared COP)                         | -                    | 2.20     | 2.29     | 2.31     | 2.20     | 2.29     |
|                                               | WTOL (Heating water Operation Limit)                    | [°C]                 | 62.00    | 62.00    | 62.00    | 62.00    | 62.00    |
| (F) Tivalent temperature                      | T <sub>biv</sub>                                        | [°C]                 | 7.00     | 7.00     | 7.00     | 7.00     | 7.00     |
|                                               | P <sub>dh</sub> (declared heating capacity)             | [kW]                 | 8.83     | 8.86     | 8.04     | 8.83     | 8.86     |
|                                               | COP <sub>d</sub> (declared COP)                         | -                    | 3.91     | 3.84     | 3.86     | 3.91     | 3.84     |
|                                               | P <sub>sup</sub> (@T <sub>designh</sub> : 2°C)          | [kW]                 | 0.66     | 0.42     | 0.43     | 0.66     | 0.42     |
| Supplementary capacity at P <sub>design</sub> |                                                         |                      |          |          |          |          |          |
| Product description                           | Air-to-water heat pump                                  | Y/N                  | Yes      | Yes      | Yes      | Yes      | Yes      |
|                                               | Water-to-water heat pump                                | Y/N                  | No       | No       | No       | No       | No       |
|                                               | Brine-to-water heat pump                                | Y/N                  | No       | No       | No       | No       | No       |
|                                               | Low-temperature heat pump                               | Y/N                  | No       | No       | No       | No       | No       |
|                                               | Equipped with a supplementary heater                    | Y/N                  | Yes      | Yes      | Yes      | Yes      | Yes      |
|                                               | Heat pump combination heater                            | Y/N                  | No       | No       | No       | No       | No       |
|                                               | Rated airflow                                           | [m³/h]               | 4060     | 4650     | 4060     | 4060     | 4650     |
|                                               | Rated water/brine flow (outdoor H/E)                    |                      | /        | /        | /        | /        | /        |
|                                               | Capacity control                                        | -                    | Inverter | Inverter | Inverter | Inverter | Inverter |
|                                               | P <sub>off</sub> (Power consumption Off mode)           | [kW]                 | 0.014    | 0.014    | 0.02     | 0.02     | 0.02     |
| Other                                         | P <sub>to</sub> (Power consumption Thermostat off mode) | [kW]                 | 0.024    | 0.024    | 0.030    | 0.030    | 0.030    |
|                                               | P <sub>sb</sub> (Power consumption Standby mode)        | [kW]                 | 0.014    | 0.014    | 0.02     | 0.02     | 0.02     |
|                                               | P <sub>ck</sub> (Power crankcase heater model)          | [kW]                 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
|                                               | Q <sub>elec</sub> (Daily electricity consumption)       | [kWh]                | /        | /        | /        | /        | /        |
|                                               | Q <sub>fuel</sub> (Daily fuel consumption)              | [kWh]                | /        | /        | /        | /        | /        |

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 4 / 4 HI3 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                                                                                                                                     | OMNIA M 3.2 Mod. 4 / 4 HI3                                                                                                         |       |      |                                                                                                                                  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                       | YES                                                                                                                                |       |      |                                                                                                                                  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                     | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                     | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                                                                                                                                    | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                                                                                                                         | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                                                                                                                                 | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                                                                                                                                   | AVERAGE                                                                                                                            |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                                                                                                                          | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                                                                                                                         | Prated                                                                                                                             | 4.4   | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 129   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                                                                                                                            |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                                                                                                                                     | Pdh                                                                                                                                | 3.89  | kW   | Tj = -7°C                                                                                                                        | COPd        | 2.17  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                                                                                                                                      | Pdh                                                                                                                                | 2.38  | kW   | Tj = 2°C                                                                                                                         | COPd        | 3.30  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                                                                                                                                      | Pdh                                                                                                                                | 2.94  | kW   | Tj = 7°C                                                                                                                         | COPd        | 4.41  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                                                                                                                                     | Pdh                                                                                                                                | 1.32  | kW   | Tj = 12°C                                                                                                                        | COPd        | 5.66  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                     | Pdh                                                                                                                                | 3.89  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 2.17  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                                                                                                                          | Pdh                                                                                                                                | 3.42  | kW   | Tj = operating limit                                                                                                             | COPd        | 1.91  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                                                                                                                       | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                          | Tbiv                                                                                                                               | -7    | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | -10   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                         | Pcyc                                                                                                                               | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                                 | Cdh                                                                                                                                | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 60    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                             |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                                                                                                                                      | Poff                                                                                                                               | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 0.98  | kW   |
| Standby mode                                                                                                                                                                                                                                                                                                                                                                  | Psb                                                                                                                                | 0.014 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                           | Pto                                                                                                                                | 0.024 | kW   |                                                                                                                                  |             |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                         | Pck                                                                                                                                | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                                                                                                                              | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 2770  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                                                                                                                           | LWA                                                                                                                                | -/55  | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                     | QHE                                                                                                                                | 2744  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                                 | Qelec                                                                                                                              | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                                | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                                                                                                                               | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).<br>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9. |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 4 / 4 HI3 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

| Technical parameters                                                                                                                    |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|----------|-------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                               |  | OMNIA M 3.2 Mod. 4 / 4 HI3 |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Air-to-water heat pump:                                                                                                                 |  | YES                        |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Water-to-water heat pump:                                                                                                               |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Brine-to-water heat pump:                                                                                                               |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Low-temperature heat pump:                                                                                                              |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Equipped with a supplementary heater:                                                                                                   |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Heat pump combination heater:                                                                                                           |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Declared climate condition:                                                                                                             |  | COLDER                     |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                      |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
|                                                                                                                                         |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Item                                                                                                                                    |  |                            |  | Symbol   | Value | Unit                                                                                                                             | Item                                                                                           |  |  |                                                                                                                                    | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                   |  |                            |  | Prated   | 3.4   | kW                                                                                                                               | Seasonal space heating energy efficiency                                                       |  |  |                                                                                                                                    | $\eta_s$    | 102   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                      |  |                            |  |          |       | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Tj = -7°C                                                                                                                               |  |                            |  | Pdh      | 2.13  | kW                                                                                                                               | Tj = -7°C                                                                                      |  |  |                                                                                                                                    | COPd        | 2.32  | -    |
| Tj = 2°C                                                                                                                                |  |                            |  | Pdh      | 1.28  | kW                                                                                                                               | Tj = 2°C                                                                                       |  |  |                                                                                                                                    | COPd        | 2.99  | -    |
| Tj = 7°C                                                                                                                                |  |                            |  | Pdh      | 1.01  | kW                                                                                                                               | Tj = 7°C                                                                                       |  |  |                                                                                                                                    | COPd        | 3.86  | -    |
| Tj = 12°C                                                                                                                               |  |                            |  | Pdh      | 1.36  | kW                                                                                                                               | Tj = 12°C                                                                                      |  |  |                                                                                                                                    | COPd        | 6.28  | -    |
| Tj = bivalent temperature                                                                                                               |  |                            |  | Pdh      | 2.74  | kW                                                                                                                               | Tj = bivalent temperature                                                                      |  |  |                                                                                                                                    | COPd        | 1.74  | -    |
| Tj = operating limit                                                                                                                    |  |                            |  | Pdh      | 1.64  | kW                                                                                                                               | Tj = operating limit                                                                           |  |  |                                                                                                                                    | COPd        | 1.02  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                 |  |                            |  | Pdh      | -     | kW                                                                                                                               | For air-to-water heat pumps: Tj = -15°C                                                        |  |  |                                                                                                                                    | COPd        | -     | -    |
| Bivalent temperature                                                                                                                    |  |                            |  | Tbiv     | -15   | °C                                                                                                                               | For air-to-water heat pumps: Operation limit temperature                                       |  |  |                                                                                                                                    | TOL         | -22   | °C   |
| Cycling interval capacity for heating                                                                                                   |  |                            |  | Pcyc     | -     | kW                                                                                                                               | Cycling interval efficiency                                                                    |  |  |                                                                                                                                    | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                           |  |                            |  | Cdh      | 0.9   | --                                                                                                                               | Heating water operating limit temperature                                                      |  |  |                                                                                                                                    | WTOL        | 51    | °C   |
| Power consumption in modes other than active mode                                                                                       |  |                            |  |          |       | Supplementary heater                                                                                                             |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Off mode                                                                                                                                |  |                            |  | Poff     | 0.014 | kW                                                                                                                               | Rated heat output (**)                                                                         |  |  |                                                                                                                                    | Psup        | 1.72  | kW   |
| Standby mode                                                                                                                            |  |                            |  | Psb      | 0.014 | kW                                                                                                                               | Type of energy input                                                                           |  |  |                                                                                                                                    | Electrical  |       |      |
| Thermostat-off mode                                                                                                                     |  |                            |  | Pto      | 0.024 | kW                                                                                                                               |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Crankcase heater mode                                                                                                                   |  |                            |  | Pck      | 0.000 | kW                                                                                                                               |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Other items                                                                                                                             |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Capacity control                                                                                                                        |  |                            |  | variable |       |                                                                                                                                  | For air-to-water heat pumps: Rated air flow rate, outdoors                                     |  |  |                                                                                                                                    | -           | 2770  | m³/h |
| Sound power level, indoors/outdoors                                                                                                     |  |                            |  | LWA      | -     | dB                                                                                                                               | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger |  |  |                                                                                                                                    | -           | -     | m³/h |
| Annual energy consumption                                                                                                               |  |                            |  | QHE      | 3159  | kWh                                                                                                                              |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| For heat pump combination heater:                                                                                                       |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Declared load profile                                                                                                                   |  |                            |  | -        |       |                                                                                                                                  | Water heating energy efficiency                                                                |  |  |                                                                                                                                    | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                           |  |                            |  | Qelec    | -     | kWh                                                                                                                              | Daily fuel consumption                                                                         |  |  |                                                                                                                                    | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                          |  |                            |  | AEC      | -     | kWh                                                                                                                              | Annual fuel consumption                                                                        |  |  |                                                                                                                                    | AFC         | -     | GJ   |
| Contact details                                                                                                                         |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).          |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.                                     |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 4 / 4 HI3 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|----------|-------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|--|
| Model(s):                                                                                                                                                                                                                                                              |  | OMNIA M 3.2 Mod. 4 / 4 HI3 |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |  | YES                        |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Heat pump combination heater:                                                                                                                                                                                                                                          |  | NO                         |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Declared climate condition:                                                                                                                                                                                                                                            |  | WARMER                     |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
|                                                                                                                                                                                                                                                                        |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Item                                                                                                                                                                                                                                                                   |  |                            |  | Symbol   | Value | Unit                                                                                                                             | Item                                                                                           |  |  |                                                                                                                                    | Symbol      | Value | Unit |  |
| Rated heat output (*)                                                                                                                                                                                                                                                  |  |                            |  | Prated   | 5.0   | kW                                                                                                                               | Seasonal space heating energy efficiency                                                       |  |  |                                                                                                                                    | $\eta_s$    | 162   | %    |  |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |  |                            |  |          |       | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Tj = -7°C                                                                                                                                                                                                                                                              |  |                            |  | Pdh      | -     | kW                                                                                                                               | Tj = -7°C                                                                                      |  |  |                                                                                                                                    | COPd        | -     | -    |  |
| Tj = 2°C                                                                                                                                                                                                                                                               |  |                            |  | Pdh      | 4.83  | kW                                                                                                                               | Tj = 2°C                                                                                       |  |  |                                                                                                                                    | COPd        | 2.51  | -    |  |
| Tj = 7°C                                                                                                                                                                                                                                                               |  |                            |  | Pdh      | 3.22  | kW                                                                                                                               | Tj = 7°C                                                                                       |  |  |                                                                                                                                    | COPd        | 3.68  | -    |  |
| Tj = 12°C                                                                                                                                                                                                                                                              |  |                            |  | Pdh      | 1.47  | kW                                                                                                                               | Tj = 12°C                                                                                      |  |  |                                                                                                                                    | COPd        | 5.15  | -    |  |
| Tj = bivalent temperature                                                                                                                                                                                                                                              |  |                            |  | Pdh      | 3.22  | kW                                                                                                                               | Tj = bivalent temperature                                                                      |  |  |                                                                                                                                    | COPd        | 3.68  | -    |  |
| Tj = operating limit                                                                                                                                                                                                                                                   |  |                            |  | Pdh      | 4.83  | kW                                                                                                                               | Tj = operating limit                                                                           |  |  |                                                                                                                                    | COPd        | 2.51  | -    |  |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                |  |                            |  | Pdh      | -     | kW                                                                                                                               | For air-to-water heat pumps: Tj = -15°C                                                        |  |  |                                                                                                                                    | COPd        | -     | -    |  |
| Bivalent temperature                                                                                                                                                                                                                                                   |  |                            |  | Tbiv     | 7     | °C                                                                                                                               | For air-to-water heat pumps: Operation limit temperature                                       |  |  |                                                                                                                                    | TOL         | 2     | °C   |  |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  |  |                            |  | Pcyc     | -     | kW                                                                                                                               | Cycling interval efficiency                                                                    |  |  |                                                                                                                                    | COPcyc      | -     | -    |  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          |  |                            |  | Cdh      | 0.9   | --                                                                                                                               | Heating water operating limit temperature                                                      |  |  |                                                                                                                                    | WTOL        | 62    | °C   |  |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |  |                            |  |          |       | Supplementary heater                                                                                                             |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Off mode                                                                                                                                                                                                                                                               |  |                            |  | Poff     | 0.014 | kW                                                                                                                               | Rated heat output (**)                                                                         |  |  |                                                                                                                                    | Psup        | 0.18  | kW   |  |
| Standby mode                                                                                                                                                                                                                                                           |  |                            |  | Psb      | 0.014 | kW                                                                                                                               | Type of energy input                                                                           |  |  |                                                                                                                                    | Electrical  |       |      |  |
| Thermostat-off mode                                                                                                                                                                                                                                                    |  |                            |  | Pto      | 0.024 | kW                                                                                                                               |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Crankcase heater mode                                                                                                                                                                                                                                                  |  |                            |  | Pck      | 0.000 | kW                                                                                                                               |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Other items                                                                                                                                                                                                                                                            |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Capacity control                                                                                                                                                                                                                                                       |  |                            |  | variable |       |                                                                                                                                  | For air-to-water heat pumps: Rated air flow rate, outdoors                                     |  |  |                                                                                                                                    | -           | 2770  | m³/h |  |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    |  |                            |  | LWA      | -     | dB                                                                                                                               | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger |  |  |                                                                                                                                    | -           | -     | m³/h |  |
| Annual energy consumption                                                                                                                                                                                                                                              |  |                            |  | QHE      | 1621  | kWh                                                                                                                              |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| For heat pump combination heater:                                                                                                                                                                                                                                      |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| Declared load profile                                                                                                                                                                                                                                                  |  |                            |  | -        |       |                                                                                                                                  | Water heating energy efficiency                                                                |  |  |                                                                                                                                    | $\eta_{wh}$ | -     | %    |  |
| Daily electricity consumption                                                                                                                                                                                                                                          |  |                            |  | Qelec    | -     | kWh                                                                                                                              | Daily fu5.1el consumption                                                                      |  |  |                                                                                                                                    | Qfuel       | -     | kWh  |  |
| Annual electricity consumption                                                                                                                                                                                                                                         |  |                            |  | AEC      | -     | kWh                                                                                                                              | Annual fuel consumption                                                                        |  |  |                                                                                                                                    | AFC         | -     | GJ   |  |
| Contact details                                                                                                                                                                                                                                                        |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  | Ferrolispa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolis.com |             |       |      |  |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.                                                                                                                                                                    |  |                            |  |          |       |                                                                                                                                  |                                                                                                |  |  |                                                                                                                                    |             |       |      |  |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 6 / 6 HI3 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

## Technical parameters

|                                                                    |                            |
|--------------------------------------------------------------------|----------------------------|
| Model(s):                                                          | OMNIA M 3.2 Mod. 6 / 6 HI3 |
| Air-to-water heat pump:                                            | YES                        |
| Water-to-water heat pump:                                          | NO                         |
| Brine-to-water heat pump:                                          | NO                         |
| Low-temperature heat pump:                                         | NO                         |
| Equipped with a supplementary heater:                              | NO                         |
| Heat pump combination heater:                                      | NO                         |
| Declared climate condition:                                        | AVERAGE                    |
| Parameters are declared for medium-temperature (55°C) application. |                            |

| Item                                                                                               | Symbol | Value | Unit |
|----------------------------------------------------------------------------------------------------|--------|-------|------|
| Rated heat output (*)                                                                              | Prated | 5.7   | kW   |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |
| Tj = -7°C                                                                                          | Pdh    | 5.04  | kW   |
| Tj = 2°C                                                                                           | Pdh    | 3.12  | kW   |
| Tj = 7°C                                                                                           | Pdh    | 2.08  | kW   |
| Tj = 12°C                                                                                          | Pdh    | 1.28  | kW   |
| Tj = bivalent temperature                                                                          | Pdh    | 5.04  | kW   |
| Tj = operating limit                                                                               | Pdh    | 4.52  | kW   |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh    | -     | kW   |
| Bivalent temperature                                                                               | Tbiv   | -7    | °C   |
| Cycling interval capacity for heating                                                              | Pcych  | -     | kW   |
| Degradation co-efficient (**)                                                                      | Cdh    | 0.9   | --   |
| Power consumption in modes other than active mode                                                  |        |       |      |
| Off mode                                                                                           | Poff   | 0.014 | kW   |
| Standby mode                                                                                       | Psb    | 0.014 | kW   |
| Thermostat-off mode                                                                                | Pto    | 0.024 | kW   |
| Crankcase heater mode                                                                              | Pck    | 0.000 | kW   |

| Item                                                                                                                             | Symbol     | Value | Unit |
|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Seasonal space heating energy efficiency                                                                                         | η s        | 138   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C                                                                                                                        | COPd       | 2.17  | -    |
| Tj = 2°C                                                                                                                         | COPd       | 3.51  | -    |
| Tj = 7°C                                                                                                                         | COPd       | 4.54  | -    |
| Tj = 12°C                                                                                                                        | COPd       | 5.59  | -    |
| Tj = bivalent temperature                                                                                                        | COPd       | 2.17  | -    |
| Tj = operating limit                                                                                                             | COPd       | 1.91  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd       | -     | -    |
| For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL        | -10   | °C   |
| Cycling interval efficiency                                                                                                      | COPcyc     | -     | -    |
| Heating water operating limit temperature                                                                                        | WTOL       | 60    | °C   |
| Supplementary heater                                                                                                             |            |       |      |
| Rated heat output (**)                                                                                                           | Psup       | 1.18  | kW   |
| Type of energy input                                                                                                             | Electrical |       |      |

|                                     |          |      |     |                                                                                                |   |      |      |
|-------------------------------------|----------|------|-----|------------------------------------------------------------------------------------------------|---|------|------|
| Other items                         |          |      |     |                                                                                                |   |      |      |
| Capacity control                    | variable |      |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 2770 | m³/h |
| Sound power level, indoors/outdoors | LWA      | -58  | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -    | m³/h |
| Annual energy consumption           | QHE      | 3345 | kWh |                                                                                                |   |      |      |

|                                   |                   |   |     |                                 |                   |   |     |
|-----------------------------------|-------------------|---|-----|---------------------------------|-------------------|---|-----|
| For heat pump combination heater: |                   |   |     |                                 |                   |   |     |
| Declared load profile             | -                 |   |     | Water heating energy efficiency | $\eta_{wh}$       | - | %   |
| Daily electricity consumption     | Q <sub>elec</sub> | - | kWh | Daily fuel consumption          | Q <sub>fuel</sub> | - | kWh |
| Annual electricity consumption    | AEC               | - | kWh | Annual fuel consumption         | AFC               | - | GJ  |

|                 |                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Contact details | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 6 / 6 HI3 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

## Technical parameters

|                                       |                            |
|---------------------------------------|----------------------------|
| Model(s):                             | OMNIA M 3.2 Mod. 6 / 6 HI3 |
| Air-to-water heat pump:               | YES                        |
| Water-to-water heat pump:             | NO                         |
| Brine-to-water heat pump:             | NO                         |
| Low-temperature heat pump:            | NO                         |
| Equipped with a supplementary heater: | NO                         |
| Heat pump combination heater:         | NO                         |
| Declared climate condition:           | COLDER                     |

Parameters are declared for medium-temperature (55°C) application.

| Item                                                                                               | Symbol | Value | Unit |
|----------------------------------------------------------------------------------------------------|--------|-------|------|
| Rated heat output (*)                                                                              | Prated | 4.3   | kW   |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |
| Tj = -7°C                                                                                          | Pdh    | 2.70  | kW   |
| Tj = 2°C                                                                                           | Pdh    | 1.60  | kW   |
| Tj = 7°C                                                                                           | Pdh    | 1.02  | kW   |
| Tj = 12°C                                                                                          | Pdh    | 1.37  | kW   |
| Tj = bivalent temperature                                                                          | Pdh    | 3.47  | kW   |
| Tj = operating limit                                                                               | Pdh    | 2.09  | kW   |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh    | -     | kW   |
| Bivalent temperature                                                                               | Tbiv   | -15   | °C   |
| Cycling interval capacity for heating                                                              | Pcych  | -     | kW   |
| Degradation co-efficient (**)                                                                      | Cdh    | 0.9   | --   |
| Power consumption in modes other than active mode                                                  |        |       |      |
| Off mode                                                                                           | Poff   | 0.014 | kW   |
| Standby mode                                                                                       | Psb    | 0.014 | kW   |
| Thermostat-off mode                                                                                | Pto    | 0.024 | kW   |
| Crankcase heater mode                                                                              | Pck    | 0.000 | kW   |

| Item                                                                                                                             | Symbol     | Value | Unit |
|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Seasonal space heating energy efficiency                                                                                         | η s        | 111   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C                                                                                                                        | COPd       | 2.46  | -    |
| Tj = 2°C                                                                                                                         | COPd       | 3.36  | -    |
| Tj = 7°C                                                                                                                         | COPd       | 3.94  | -    |
| Tj = 12°C                                                                                                                        | COPd       | 6.35  | -    |
| Tj = bivalent temperature                                                                                                        | COPd       | 1.86  | -    |
| Tj = operating limit                                                                                                             | COPd       | 1.13  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd       | -     | -    |
| For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL        | -22   | °C   |
| Cycling interval efficiency                                                                                                      | COPcyc     | -     | -    |
| Heating water operating limit temperature                                                                                        | WTOL       | 51    | °C   |
| Supplementary heater                                                                                                             |            |       |      |
| Rated heat output (**)                                                                                                           | Psup       | 5.10  | kW   |
| Type of energy input                                                                                                             | Electrical |       |      |

|                                     |          |      |     |                                                                                                |   |      |      |
|-------------------------------------|----------|------|-----|------------------------------------------------------------------------------------------------|---|------|------|
| Other items                         |          |      |     |                                                                                                |   |      |      |
| Capacity control                    | variable |      |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 2770 | m³/h |
| Sound power level, indoors/outdoors | LWA      | -    | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -    | m³/h |
| Annual energy consumption           | QHE      | 3681 | kWh |                                                                                                |   |      |      |

For heat pump combination heater:

|                                |       |   |     |                                 |             |   |     |
|--------------------------------|-------|---|-----|---------------------------------|-------------|---|-----|
| Declared load profile          | -     |   |     | Water heating energy efficiency | $\eta_{wh}$ | - | %   |
| Daily electricity consumption  | Qelec | - | kWh | Daily fuel consumption          | Qfuel       | - | kWh |
| Annual electricity consumption | AEC   | - | kWh | Annual fuel consumption         | AFC         | - | GJ  |

Contact details: Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 6 / 6 HI3 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

## Technical parameters

|                                       |                            |
|---------------------------------------|----------------------------|
| Model(s):                             | OMNIA M 3.2 Mod. 6 / 6 HI3 |
| Air-to-water heat pump:               | YES                        |
| Water-to-water heat pump:             | NO                         |
| Brine-to-water heat pump:             | NO                         |
| Low-temperature heat pump:            | NO                         |
| Equipped with a supplementary heater: | NO                         |
| Heat pump combination heater:         | NO                         |
| Declared climate condition:           | WARMER                     |

Parameters are declared for medium-temperature (55°C) application.

| Item                                                                                               | Symbol | Value | Unit |
|----------------------------------------------------------------------------------------------------|--------|-------|------|
| Rated heat output (*)                                                                              | Prated | 5.1   | kW   |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |
| Tj = -7°C                                                                                          | Pdh    | -     | kW   |
| Tj = 2°C                                                                                           | Pdh    | 5.02  | kW   |
| Tj = 7°C                                                                                           | Pdh    | 3.31  | kW   |
| Tj = 12°C                                                                                          | Pdh    | 1.60  | kW   |
| Tj = bivalent temperature                                                                          | Pdh    | 3.31  | kW   |
| Tj = operating limit                                                                               | Pdh    | 5.02  | kW   |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh    | -     | kW   |
| Bivalent temperature                                                                               | Tbiv   | 7     | °C   |
| Cycling interval capacity for heating                                                              | Pcych  | -     | kW   |
| Degradation co-efficient (**)                                                                      | Cdh    | 0.9   | --   |
| Power consumption in modes other than active mode                                                  |        |       |      |
| Off mode                                                                                           | Poff   | 0.014 | kW   |
| Standby mode                                                                                       | Psb    | 0.014 | kW   |
| Thermostat-off mode                                                                                | Pto    | 0.024 | kW   |
| Crankcase heater mode                                                                              | Pck    | 0.000 | kW   |

| Item                                                                                                                             | Symbol     | Value | Unit |
|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Seasonal space heating energy efficiency                                                                                         | η s        | 165   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C                                                                                                                        | COPd       | -     | -    |
| Tj = 2°C                                                                                                                         | COPd       | 2.48  | -    |
| Tj = 7°C                                                                                                                         | COPd       | 3.67  | -    |
| Tj = 12°C                                                                                                                        | COPd       | 5.29  | -    |
| Tj = bivalent temperature                                                                                                        | COPd       | 3.67  | -    |
| Tj = operating limit                                                                                                             | COPd       | 2.48  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd       | -     | -    |
| For air-to-water heat pumps: Operation limit temperature                                                                         | TOL        | 2     | °C   |
| Cycling interval efficiency                                                                                                      | COPcyc     | -     | -    |
| Heating water operating limit temperature                                                                                        | WTOL       | 62    | °C   |
| Supplementary heater                                                                                                             |            |       |      |
| Rated heat output (**)                                                                                                           | Psup       | 0     | kW   |
| Type of energy input                                                                                                             | Electrical |       |      |

|                                     |          |      |     |                                                                                                |   |      |      |
|-------------------------------------|----------|------|-----|------------------------------------------------------------------------------------------------|---|------|------|
| Other items                         |          |      |     |                                                                                                |   |      |      |
| Capacity control                    | variable |      |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 2770 | m³/h |
| Sound power level, indoors/outdoors | LWA      | -    | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -    | m³/h |
| Annual energy consumption           | QHE      | 1640 | kWh |                                                                                                |   |      |      |

|                                   |       |   |     |                                 |             |   |     |
|-----------------------------------|-------|---|-----|---------------------------------|-------------|---|-----|
| For heat pump combination heater: |       |   |     |                                 |             |   |     |
| Declared load profile             | -     |   |     | Water heating energy efficiency | $\eta_{wh}$ | - | %   |
| Daily electricity consumption     | Qelec | - | kWh | Daily fuel consumption          | Qfuel       | - | kWh |
| Annual electricity consumption    | AEC   | - | kWh | Annual fuel consumption         | AFC         | - | GJ  |

|                 |                                                                                                                                  |  |  |  |  |  |  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| Contact details | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |  |  |  |  |  |  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |        |       |      |            |  |  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|------------|--|--|
| Model(s):                                                                                          |                                                                                                                                    |       |      | OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9                                                                                               |        |       |      |            |  |  |
| Air-to-water heat pump:                                                                            |                                                                                                                                    |       |      | YES                                                                                                                              |        |       |      |            |  |  |
| Water-to-water heat pump:                                                                          |                                                                                                                                    |       |      | NO                                                                                                                               |        |       |      |            |  |  |
| Brine-to-water heat pump:                                                                          |                                                                                                                                    |       |      | NO                                                                                                                               |        |       |      |            |  |  |
| Low-temperature heat pump:                                                                         |                                                                                                                                    |       |      | NO                                                                                                                               |        |       |      |            |  |  |
| Equipped with a supplementary heater:                                                              |                                                                                                                                    |       |      | NO                                                                                                                               |        |       |      |            |  |  |
| Heat pump combination heater:                                                                      |                                                                                                                                    |       |      | NO                                                                                                                               |        |       |      |            |  |  |
| Declared climate condition:                                                                        |                                                                                                                                    |       |      | AVERAGE                                                                                                                          |        |       |      |            |  |  |
| Parameters are declared for medium-temperature (55°C) application.                                 |                                                                                                                                    |       |      |                                                                                                                                  |        |       |      |            |  |  |
|                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |        |       |      |            |  |  |
| Item                                                                                               | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol | Value | Unit |            |  |  |
| Rated heat output (*)                                                                              | Prated                                                                                                                             | 6.6   | kW   | Seasonal space heating energy efficiency                                                                                         | η s    | 131   | %    |            |  |  |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |            |  |  |
| Tj = -7°C                                                                                          | Pdh                                                                                                                                | 5.84  | kW   | Tj = -7°C                                                                                                                        | COPd   | 2.16  | -    |            |  |  |
| Tj = 2°C                                                                                           | Pdh                                                                                                                                | 3.75  | kW   | Tj = 2°C                                                                                                                         | COPd   | 3.30  | -    |            |  |  |
| Tj = 7°C                                                                                           | Pdh                                                                                                                                | 2.42  | kW   | Tj = 7°C                                                                                                                         | COPd   | 4.34  | -    |            |  |  |
| Tj = 12°C                                                                                          | Pdh                                                                                                                                | 1.39  | kW   | Tj = 12°C                                                                                                                        | COPd   | 5.33  | -    |            |  |  |
| Tj = bivalent temperature                                                                          | Pdh                                                                                                                                | 5.84  | kW   | Tj = bivalent temperature                                                                                                        | COPd   | 2.16  | -    |            |  |  |
| Tj = operating limit                                                                               | Pdh                                                                                                                                | 4.90  | kW   | Tj = operating limit                                                                                                             | COPd   | 1.84  | -    |            |  |  |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd   | -     | -    |            |  |  |
| Bivalent temperature                                                                               | Tbiv                                                                                                                               | -7    | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL    | -10   | °C   |            |  |  |
| Cycling interval capacity for heating                                                              | Pcyh                                                                                                                               | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc | -     | -    |            |  |  |
| Degradation co-efficient (**)                                                                      | Cdh                                                                                                                                | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL   | 60    | °C   |            |  |  |
| Power consumption in modes other than active mode                                                  |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |        |       |      |            |  |  |
| Off mode                                                                                           | Poff                                                                                                                               | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup   | 1.69  | kW   |            |  |  |
| Standby mode                                                                                       | Psb                                                                                                                                | 0.014 | kW   |                                                                                                                                  |        |       |      |            |  |  |
| Thermostat-off mode                                                                                | Pto                                                                                                                                | 0.024 | kW   | Type of energy input                                                                                                             |        |       |      | Electrical |  |  |
| Crankcase heater mode                                                                              | Pck                                                                                                                                | 0.000 | kW   |                                                                                                                                  |        |       |      |            |  |  |
| Other items                                                                                        |                                                                                                                                    |       |      |                                                                                                                                  |        |       |      |            |  |  |
| Capacity control                                                                                   | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -      | 4030  | m³/h |            |  |  |
| Sound power level, indoors/outdoors                                                                | LWA                                                                                                                                | -59   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -      | -     | m³/h |            |  |  |
| Annual energy consumption                                                                          | QHE                                                                                                                                | 4056  | kWh  |                                                                                                                                  |        |       |      |            |  |  |
| For heat pump combination heater:                                                                  |                                                                                                                                    |       |      |                                                                                                                                  |        |       |      |            |  |  |
| Declared load profile                                                                              | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | ηwh    | -     | %    |            |  |  |
| Daily electricity consumption                                                                      | Qelec                                                                                                                              | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel  | -     | kWh  |            |  |  |
| Annual electricity consumption                                                                     | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC    | -     | GJ   |            |  |  |
|                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |        |       |      |            |  |  |
| Contact details                                                                                    | Ferroli spa ~ 37047 San Bonifacio (Verona) Italy ~ Via Ritonda 78/A - tel. +39.045.6139411 ~ fax +39.045.6100933 ~ www.ferroli.com |       |      |                                                                                                                                  |        |       |      |            |  |  |

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                    |       |      | OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9                                                                                               |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                    |       |      | YES                                                                                                                              |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                    |       |      | COLDER                                                                                                                           |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                                                                                                                               |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
|                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                                                                                                                             | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                                                                                                                            | Prated                                                                                                                             | 5.8   | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 112   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                                                                                                                               |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                                                                                                                                        | Pdh                                                                                                                                | 3.86  | kW   | Tj = -7°C                                                                                                                        | COPd        | 2.48  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                                                                                                                                         | Pdh                                                                                                                                | 2.21  | kW   | Tj = 2°C                                                                                                                         | COPd        | 3.35  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                                                                                                                                         | Pdh                                                                                                                                | 1.44  | kW   | Tj = 7°C                                                                                                                         | COPd        | 4.11  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                                                                                                                                        | Pdh                                                                                                                                | 1.46  | kW   | Tj = 12°C                                                                                                                        | COPd        | 5.92  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                        | Pdh                                                                                                                                | 4.71  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 1.90  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                                                                                                                             | Pdh                                                                                                                                | 2.80  | kW   | Tj = operating limit                                                                                                             | COPd        | 1.22  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                                                                                                                          | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                             | Tbiv                                                                                                                               | -15   | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | -22   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                            | Pcyc                                                                                                                               | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                                    | Cdh                                                                                                                                | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 51    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                                |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                                                                                                                                         | Poff                                                                                                                               | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 2.97  | kW   |
| Standby mode                                                                                                                                                                                                                                                                                                                                                                     | Psb                                                                                                                                | 0.014 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                              | Pto                                                                                                                                | 0.024 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                            | Pck                                                                                                                                | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                                                                                                                                 | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4030  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                                                                                                                              | LWA                                                                                                                                | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                        | QHE                                                                                                                                | 4950  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                            | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                                    | Qelec                                                                                                                              | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                                   | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
|                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Contact details                                                                                                                                                                                                                                                                                                                                                                  | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating<br>Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).<br>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9. |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

## Technical parameters

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Model(s):                             | OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9 |
| Air-to-water heat pump:               | YES                                |
| Water-to-water heat pump:             | NO                                 |
| Brine-to-water heat pump:             | NO                                 |
| Low-temperature heat pump:            | NO                                 |
| Equipped with a supplementary heater: | NO                                 |
| Heat pump combination heater:         | NO                                 |
| Declared climate condition:           | WARMER                             |

Parameters are declared for medium-temperature (55°C) application.

| Item                                                                                               | Symbol | Value | Unit | Item                                                                                                                             | Symbol   | Value | Unit |
|----------------------------------------------------------------------------------------------------|--------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|
| Rated heat output (*)                                                                              | Prated | 7.6   | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$ | 176   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |          |       |      |
| Tj = -7°C                                                                                          | Pdh    | -     | kW   | Tj = -7°C                                                                                                                        | COPd     | -     | -    |
| Tj = 2°C                                                                                           | Pdh    | 7.55  | kW   | Tj = 2°C                                                                                                                         | COPd     | 2.59  | -    |
| Tj = 7°C                                                                                           | Pdh    | 4.86  | kW   | Tj = 7°C                                                                                                                         | COPd     | 3.92  | -    |
| Tj = 12°C                                                                                          | Pdh    | 2.31  | kW   | Tj = 12°C                                                                                                                        | COPd     | 5.55  | -    |
| Tj = bivalent temperature                                                                          | Pdh    | 4.86  | kW   | Tj = bivalent temperature                                                                                                        | COPd     | 3.92  | -    |
| Tj = operating limit                                                                               | Pdh    | 7.55  | kW   | Tj = operating limit                                                                                                             | COPd     | 2.59  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh    | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd     | -     | -    |
| Bivalent temperature                                                                               | Tbiv   | 7     | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL      | 2     | °C   |
| Cycling interval capacity for heating                                                              | Pcyc   | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc   | -     | -    |
| Degradation co-efficient (**)                                                                      | Cdh    | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL     | 62    | °C   |
| Power consumption in modes other than active mode                                                  |        |       |      | Supplementary heater                                                                                                             |          |       |      |
| Off mode                                                                                           | Poff   | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup     | 0     | kW   |
| Standby mode                                                                                       | Psb    | 0.014 | kW   | Type of energy input                                                                                                             |          |       |      |
| Thermostat-off mode                                                                                | Pto    | 0.024 | kW   |                                                                                                                                  |          |       |      |
| Crankcase heater mode                                                                              | Pck    | 0.000 | kW   | Electrical                                                                                                                       |          |       |      |

|                                     |          |      |     |                                                                                                |   |      |      |
|-------------------------------------|----------|------|-----|------------------------------------------------------------------------------------------------|---|------|------|
| Other items                         |          |      |     |                                                                                                |   |      |      |
| Capacity control                    | variable |      |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 4030 | m³/h |
| Sound power level, indoors/outdoors | LWA      | -    | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -    | m³/h |
| Annual energy consumption           | QHE      | 2259 | kWh |                                                                                                |   |      |      |

|                                   |       |   |     |                                 |             |   |     |
|-----------------------------------|-------|---|-----|---------------------------------|-------------|---|-----|
| For heat pump combination heater: |       |   |     |                                 |             |   |     |
| Declared load profile             | -     |   |     | Water heating energy efficiency | $\eta_{wh}$ | - | %   |
| Daily electricity consumption     | Qelec | - | kWh | Daily fuel consumption          | Qfuel       | - | kWh |
| Annual electricity consumption    | AEC   | - | kWh | Annual fuel consumption         | AFC         | - | GJ  |

|                 |                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|
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|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              | OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9                                                                                              |       |      |                                                                                                                                  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                | YES                                                                                                                                |       |      |                                                                                                                                  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          | NO                                                                                                                                 |       |      |                                                                                                                                  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            | AVERAGE                                                                                                                            |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                             | 7.7   | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 136   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 6.78  | kW   | Tj = -7°C                                                                                                                        | COPd        | 2.24  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 4.28  | kW   | Tj = 2°C                                                                                                                         | COPd        | 3.42  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 2.77  | kW   | Tj = 7°C                                                                                                                         | COPd        | 4.52  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 1.58  | kW   | Tj = 12°C                                                                                                                        | COPd        | 5.68  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 6.78  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 2.24  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                                | 5.38  | kW   | Tj = operating limit                                                                                                             | COPd        | 1.83  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                               | -7    | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | -10   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                               | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                                | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 60    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                               | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 2.29  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                                | 0.014 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                                | 0.024 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                                | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4030  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                                | -/60  | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                                | 4539  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qelec                                                                                                                              | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                                                         |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Model(s):                                                                                                                               |                                                                                                                                    | OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 |      |                                                                                                                                  |            |       |      |
| Air-to-water heat pump:                                                                                                                 |                                                                                                                                    | YES                                   |      |                                                                                                                                  |            |       |      |
| Water-to-water heat pump:                                                                                                               |                                                                                                                                    | NO                                    |      |                                                                                                                                  |            |       |      |
| Brine-to-water heat pump:                                                                                                               |                                                                                                                                    | NO                                    |      |                                                                                                                                  |            |       |      |
| Low-temperature heat pump:                                                                                                              |                                                                                                                                    | NO                                    |      |                                                                                                                                  |            |       |      |
| Equipped with a supplementary heater:                                                                                                   |                                                                                                                                    | NO                                    |      |                                                                                                                                  |            |       |      |
| Heat pump combination heater:                                                                                                           |                                                                                                                                    | NO                                    |      |                                                                                                                                  |            |       |      |
| Declared climate condition:                                                                                                             |                                                                                                                                    | COLDER                                |      |                                                                                                                                  |            |       |      |
| Parameters are declared for medium-temperature application.                                                                             |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                      |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |
| Item                                                                                                                                    | Symbol                                                                                                                             | Value                                 | Unit | Item                                                                                                                             | Symbol     | Value | Unit |
| Rated heat output (*)                                                                                                                   | Prated                                                                                                                             | 6.7                                   | kW   | Seasonal space heating energy efficiency                                                                                         | η s        | 116   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                      |                                                                                                                                    |                                       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C                                                                                                                               | Pdh                                                                                                                                | 4.27                                  | kW   | Tj = -7°C                                                                                                                        | COPd       | 2.54  | -    |
| Tj = 2°C                                                                                                                                | Pdh                                                                                                                                | 2.57                                  | kW   | Tj = 2°C                                                                                                                         | COPd       | 3.51  | -    |
| Tj = 7°C                                                                                                                                | Pdh                                                                                                                                | 1.65                                  | kW   | Tj = 7°C                                                                                                                         | COPd       | 4.37  | -    |
| Tj = 12°C                                                                                                                               | Pdh                                                                                                                                | 1.47                                  | kW   | Tj = 12°C                                                                                                                        | COPd       | 5.96  | -    |
| Tj = bivalent temperature                                                                                                               | Pdh                                                                                                                                | 5.47                                  | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 2.00  | -    |
| Tj = operating limit                                                                                                                    | Pdh                                                                                                                                | 2.80                                  | kW   | Tj = operating limit                                                                                                             | COPd       | 1.22  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                 | Pdh                                                                                                                                | -                                     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd       | -     | -    |
| Bivalent temperature                                                                                                                    | Tbiv                                                                                                                               | -15                                   | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL        | -22   | °C   |
| Cycling interval capacity for heating                                                                                                   | Pcyc                                                                                                                               | -                                     | kW   | Cycling interval efficiency                                                                                                      | COPcyc     | -     | -    |
| Degradation co-efficient (**)                                                                                                           | Cdh                                                                                                                                | 0.9                                   | --   | Heating water operating limit temperature                                                                                        | WTOL       | 51    | °C   |
| Power consumption in modes other than active mode                                                                                       |                                                                                                                                    |                                       |      | Supplementary heater                                                                                                             |            |       |      |
| Off mode                                                                                                                                | Poff                                                                                                                               | 0.014                                 | kW   | Rated heat output (**)                                                                                                           | Psup       | 3.91  | kW   |
| Standby mode                                                                                                                            | Psb                                                                                                                                | 0.014                                 | kW   | Type of energy input                                                                                                             | Electrical |       |      |
| Thermostat-off mode                                                                                                                     | Pto                                                                                                                                | 0.024                                 | kW   |                                                                                                                                  |            |       |      |
| Crankcase heater mode                                                                                                                   | Pck                                                                                                                                | 0.000                                 | kW   |                                                                                                                                  |            |       |      |
| Other items                                                                                                                             |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |
| Capacity control                                                                                                                        | variable                                                                                                                           |                                       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -          | 4030  | m³/h |
| Sound power level, indoors/outdoors                                                                                                     | LWA                                                                                                                                | -                                     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -          | -     | m³/h |
| Annual energy consumption                                                                                                               | QHE                                                                                                                                | 5540                                  | kWh  |                                                                                                                                  |            |       |      |
| For heat pump combination heater:                                                                                                       |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |
| Declared load profile                                                                                                                   | -                                                                                                                                  |                                       |      | Water heating energy efficiency                                                                                                  | ηwh        | -     | %    |
| Daily electricity consumption                                                                                                           | Qelec                                                                                                                              | -                                     | kWh  | Daily fuel consumption                                                                                                           | Qfuel      | -     | kWh  |
| Annual electricity consumption                                                                                                          | AEC                                                                                                                                | -                                     | kWh  | Annual fuel consumption                                                                                                          | AFC        | -     | GJ   |
|                                                                                                                                         |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |
| Contact details                                                                                                                         | Ferroli spa ~ 37047 San Bonifacio (Verona) Italy ~ Via Ritonda 78/A - tel. +39.045.6139411 ~ fax +39.045.6100933 ~ www.ferroli.com |                                       |      |                                                                                                                                  |            |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |
| Designh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).           |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.                                     |                                                                                                                                    |                                       |      |                                                                                                                                  |            |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

## Technical parameters

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Model(s):                             | OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 |
| Air-to-water heat pump:               | YES                                   |
| Water-to-water heat pump:             | NO                                    |
| Brine-to-water heat pump:             | NO                                    |
| Low-temperature heat pump:            | NO                                    |
| Equipped with a supplementary heater: | NO                                    |
| Heat pump combination heater:         | NO                                    |
| Declared climate condition:           | WARMER                                |

Parameters are declared for medium-temperature application.

Parameters are declared for medium-temperature (55°C) application.

| Item                                                                                               | Symbol | Value | Unit |
|----------------------------------------------------------------------------------------------------|--------|-------|------|
| Rated heat output (*)                                                                              | Prated | 8.6   | kW   |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |
| Tj = -7°C                                                                                          | Pdh    | -     | kW   |
| Tj = 2°C                                                                                           | Pdh    | 8.06  | kW   |
| Tj = 7°C                                                                                           | Pdh    | 5.54  | kW   |
| Tj = 12°C                                                                                          | Pdh    | 2.53  | kW   |
| Tj = bivalent temperature                                                                          | Pdh    | 5.54  | kW   |
| Tj = operating limit                                                                               | Pdh    | 8.15  | kW   |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh    | -     | kW   |
| Bivalent temperature                                                                               | Tbiv   | 7     | °C   |
| Cycling interval capacity for heating                                                              | Pcych  | -     | kW   |
| Degradation co-efficient (**)                                                                      | Cdh    | 0.9   | --   |
| Power consumption in modes other than active mode                                                  |        |       |      |
| Off mode                                                                                           | Poff   | 0.014 | kW   |
| Standby mode                                                                                       | Psb    | 0.014 | kW   |
| Thermostat-off mode                                                                                | Pto    | 0.024 | kW   |
| Crankcase heater mode                                                                              | Pck    | 0.000 | kW   |

| Item                                                                                                                             | Symbol     | Value | Unit |
|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Seasonal space heating energy efficiency                                                                                         | η s        | 180   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C                                                                                                                        | COPd       | -     | -    |
| Tj = 2°C                                                                                                                         | COPd       | 2.59  | -    |
| Tj = 7°C                                                                                                                         | COPd       | 4.10  | -    |
| Tj = 12°C                                                                                                                        | COPd       | 5.82  | -    |
| Tj = bivalent temperature                                                                                                        | COPd       | 4.10  | -    |
| Tj = operating limit                                                                                                             | COPd       | 2.61  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd       | -     | -    |
| For air-to-water heat pumps: Operation limit temperature                                                                         | TOL        | 2     | °C   |
| Cycling interval efficiency                                                                                                      | COPcyc     | -     | -    |
| Heating water operating limit temperature                                                                                        | WTOL       | 62    | °C   |
| Supplementary heater                                                                                                             |            |       |      |
| Rated heat output (**)                                                                                                           | Psup       | 0.48  | kW   |
| Type of energy input                                                                                                             | Electrical |       |      |

|                                     |          |      |     |                                                                                                |   |      |      |
|-------------------------------------|----------|------|-----|------------------------------------------------------------------------------------------------|---|------|------|
| Other items                         |          |      |     |                                                                                                |   |      |      |
| Capacity control                    | variable |      |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 4030 | m³/h |
| Sound power level, indoors/outdoors | LWA      | -    | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -    | m³/h |
| Annual energy consumption           | QHE      | 2516 | kWh |                                                                                                |   |      |      |

For heat pump combination heater:

|                                |       |   |     |                                 |             |   |     |
|--------------------------------|-------|---|-----|---------------------------------|-------------|---|-----|
| Declared load profile          | -     |   |     | Water heating energy efficiency | $\eta_{wh}$ | - | %   |
| Daily electricity consumption  | Qelec | - | kWh | Daily fuel consumption          | Qfuel       | - | kWh |
| Annual electricity consumption | AEC   | - | kWh | Annual fuel consumption         | AFC         | - | GJ  |

Contact details Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              | OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9                                                                                            |       |      |                                                                                                                                  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                | YES                                                                                                                              |       |      |                                                                                                                                  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              | NO                                                                                                                               |       |      |                                                                                                                                  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              | NO                                                                                                                               |       |      |                                                                                                                                  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             | NO                                                                                                                               |       |      |                                                                                                                                  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  | NO                                                                                                                               |       |      |                                                                                                                                  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          | NO                                                                                                                               |       |      |                                                                                                                                  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            | AVERAGE                                                                                                                          |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                           | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                           | 11.6  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 135   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 10.24 | kW   | Tj = -7°C                                                                                                                        | COPd        | 2.01  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                              | 6.52  | kW   | Tj = 2°C                                                                                                                         | COPd        | 3.44  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                              | 4.36  | kW   | Tj = 7°C                                                                                                                         | COPd        | 4.59  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 3.29  | kW   | Tj = 12°C                                                                                                                        | COPd        | 6.05  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 10.24 | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 2.01  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                              | 9.10  | kW   | Tj = operating limit                                                                                                             | COPd        | 1.79  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                              | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                             | -7    | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | -10   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                             | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                              | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 60    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                  |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                             | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 1.23  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                              | 0.014 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                              | 0.024 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                              | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                         |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                              | -65   | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                              | 6927  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qelec                                                                                                                            | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                              | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |  |                                                                                                                                      |       | OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9 |                                                                                                                                  |  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |  |                                                                                                                                      |       | YES                                   |                                                                                                                                  |  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |  |                                                                                                                                      |       | COLDER                                |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| Item                                                                                                                                                                                                                                                                   |  | Symbol                                                                                                                               | Value | Unit                                  | Item                                                                                                                             |  | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  |  | Prated                                                                                                                               | 10.3  | kW                                    | Seasonal space heating energy efficiency                                                                                         |  | $\eta_s$    | 118   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |  |                                                                                                                                      |       |                                       | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |  |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                  | 6.63  | kW                                    | Tj = -7°C                                                                                                                        |  | COPd        | 2.63  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                                  | 4.06  | kW                                    | Tj = 2°C                                                                                                                         |  | COPd        | 3.60  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                                  | 2.78  | kW                                    | Tj = 7°C                                                                                                                         |  | COPd        | 4.54  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                  | 3.33  | kW                                    | Tj = 12°C                                                                                                                        |  | COPd        | 6.25  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                  | 8.41  | kW                                    | Tj = bivalent temperature                                                                                                        |  | COPd        | 1.84  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   |  | Pdh                                                                                                                                  | 4.19  | kW                                    | Tj = operating limit                                                                                                             |  | COPd        | 1.13  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                |  | Pdh                                                                                                                                  | -     | kW                                    | For air-to-water heat pumps: Tj = -15°C                                                                                          |  | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   |  | Tbiv                                                                                                                                 | -15   | °C                                    | For air-to-water heat pumps: Operation limit temperature                                                                         |  | TOL         | -22   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  |  | Pcyc                                                                                                                                 | -     | kW                                    | Cycling interval efficiency                                                                                                      |  | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          |  | Cdh                                                                                                                                  | 0.9   | --                                    | Heating water operating limit temperature                                                                                        |  | WTOL        | 51    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |  |                                                                                                                                      |       |                                       | Supplementary heater                                                                                                             |  |             |       |      |
| Off mode                                                                                                                                                                                                                                                               |  | Poff                                                                                                                                 | 0.014 | kW                                    | Rated heat output (**)                                                                                                           |  | Psup        | 6.11  | kW   |
| Standby mode                                                                                                                                                                                                                                                           |  | Psb                                                                                                                                  | 0.014 | kW                                    |                                                                                                                                  |  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    |  | Pto                                                                                                                                  | 0.024 | kW                                    | Type of energy input                                                                                                             |  | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  |  | Pck                                                                                                                                  | 0.000 | kW                                    |                                                                                                                                  |  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       |  | variable                                                                                                                             |       |                                       | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       |  | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    |  | LWA                                                                                                                                  | -     | dB                                    | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   |  | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              |  | QHE                                                                                                                                  | 8419  | kWh                                   |                                                                                                                                  |  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  |  | -                                                                                                                                    |       |                                       | Water heating energy efficiency                                                                                                  |  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          |  | Qelec                                                                                                                                | -     | kWh                                   | Daily fuel consumption                                                                                                           |  | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         |  | AEC                                                                                                                                  | -     | kWh                                   | Annual fuel consumption                                                                                                          |  | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        |  | Ferrolli spa ~ 37047 San Bonifacio (Verona) Italy ~ Via Ritonda 78/A - tel. +39.045.6139411 ~ fax +39.045.6100933 ~ www.ferrolli.com |       |                                       |                                                                                                                                  |  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                          |                                                                                                                                    |       |      | OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9                                                                                            |             |       |      |
| Air-to-water heat pump:                                                                            |                                                                                                                                    |       |      | YES                                                                                                                              |             |       |      |
| Water-to-water heat pump:                                                                          |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Brine-to-water heat pump:                                                                          |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Low-temperature heat pump:                                                                         |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Equipped with a supplementary heater:                                                              |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Heat pump combination heater:                                                                      |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Declared climate condition:                                                                        |                                                                                                                                    |       |      | WARMER                                                                                                                           |             |       |      |
| Parameters are declared for medium-temperature application.                                        |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                 |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                               | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                              | Prated                                                                                                                             | 12.5  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 174   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                          | Pdh                                                                                                                                | -     | kW   | Tj = -7°C                                                                                                                        | COPd        | -     | -    |
| Tj = 2°C                                                                                           | Pdh                                                                                                                                | 12.07 | kW   | Tj = 2°C                                                                                                                         | COPd        | 2.31  | -    |
| Tj = 7°C                                                                                           | Pdh                                                                                                                                | 8.04  | kW   | Tj = 7°C                                                                                                                         | COPd        | 3.86  | -    |
| Tj = 12°C                                                                                          | Pdh                                                                                                                                | 3.75  | kW   | Tj = 12°C                                                                                                                        | COPd        | 5.70  | -    |
| Tj = bivalent temperature                                                                          | Pdh                                                                                                                                | 8.04  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 3.86  | -    |
| Tj = operating limit                                                                               | Pdh                                                                                                                                | 12.07 | kW   | Tj = operating limit                                                                                                             | COPd        | 2.31  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                               | Tbiv                                                                                                                               | 7     | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | 2     | °C   |
| Cycling interval capacity for heating                                                              | Pcyc                                                                                                                               | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                      | Cdh                                                                                                                                | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 62    | °C   |
| Power consumption in modes other than active mode                                                  |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                           | Poff                                                                                                                               | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 0.43  | kW   |
| Standby mode                                                                                       | Psb                                                                                                                                | 0.014 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Thermostat-off mode                                                                                | Pto                                                                                                                                | 0.024 | kW   |                                                                                                                                  |             |       |      |
| Crankcase heater mode                                                                              | Pck                                                                                                                                | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                        |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                   | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                | LWA                                                                                                                                | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                          | QHE                                                                                                                                | 3776  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                  |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                              | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                      | Qelec                                                                                                                              | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                     | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                    | Ferroli spa ~ 37047 San Bonifacio (Verona) Italy ~ Via Ritonda 78/A - tel. +39.045.6139411 ~ fax +39.045.6100933 ~ www.ferroli.com |       |      |                                                                                                                                  |             |       |      |

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).  
(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |  |                                                                                                                                      |       | OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9 |                                                                                                                                  |  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |  |                                                                                                                                      |       | YES                                   |                                                                                                                                  |  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |  |                                                                                                                                      |       | NO                                    |                                                                                                                                  |  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |  |                                                                                                                                      |       | AVERAGE                               |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| Item                                                                                                                                                                                                                                                                   |  | Symbol                                                                                                                               | Value | Unit                                  | Item                                                                                                                             |  | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  |  | Prated                                                                                                                               | 12.08 | kW                                    | Seasonal space heating energy efficiency                                                                                         |  | $\eta_s$    | 135   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |  |                                                                                                                                      |       |                                       | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |  |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                  | 10.68 | kW                                    | Tj = -7°C                                                                                                                        |  | COPd        | 2.01  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                                  | 6.86  | kW                                    | Tj = 2°C                                                                                                                         |  | COPd        | 3.43  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                                  | 4.63  | kW                                    | Tj = 7°C                                                                                                                         |  | COPd        | 4.66  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                  | 3.31  | kW                                    | Tj = 12°C                                                                                                                        |  | COPd        | 6.13  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                  | 10.68 | kW                                    | Tj = bivalent temperature                                                                                                        |  | COPd        | 2.01  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   |  | Pdh                                                                                                                                  | 9.19  | kW                                    | Tj = operating limit                                                                                                             |  | COPd        | 1.76  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                |  | Pdh                                                                                                                                  | -     | kW                                    | For air-to-water heat pumps: Tj = -15°C                                                                                          |  | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   |  | Tbiv                                                                                                                                 | -7    | °C                                    | For air-to-water heat pumps: Operation limit temperature                                                                         |  | TOL         | -10   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  |  | Pcyc                                                                                                                                 | -     | kW                                    | Cycling interval efficiency                                                                                                      |  | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          |  | Cdh                                                                                                                                  | 0.9   | --                                    | Heating water operating limit temperature                                                                                        |  | WTOL        | 60    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |  |                                                                                                                                      |       |                                       | Supplementary heater                                                                                                             |  |             |       |      |
| Off mode                                                                                                                                                                                                                                                               |  | Poff                                                                                                                                 | 0.014 | kW                                    | Rated heat output (**)                                                                                                           |  | Psup        | 1.40  | kW   |
| Standby mode                                                                                                                                                                                                                                                           |  | Psb                                                                                                                                  | 0.014 | kW                                    | Type of energy input                                                                                                             |  | Electrical  |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    |  | Pto                                                                                                                                  | 0.024 | kW                                    |                                                                                                                                  |  |             |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  |  | Pck                                                                                                                                  | 0.000 | kW                                    |                                                                                                                                  |  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       |  | variable                                                                                                                             |       |                                       | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       |  | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    |  | LWA                                                                                                                                  | -65   | dB                                    | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   |  | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              |  | QHE                                                                                                                                  | 7202  | kWh                                   |                                                                                                                                  |  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  |  | -                                                                                                                                    |       |                                       | Water heating energy efficiency                                                                                                  |  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          |  | Qelec                                                                                                                                | -     | kWh                                   | Daily fuel consumption                                                                                                           |  | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         |  | AEC                                                                                                                                  | -     | kWh                                   | Annual fuel consumption                                                                                                          |  | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        |  | Ferrolli spa ~ 37047 San Bonifacio (Verona) Italy ~ Via Ritonda 78/A - tel. +39.045.6139411 ~ fax +39.045.6100933 ~ www.ferrolli.com |       |                                       |                                                                                                                                  |  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |  |                                                                                                                                      |       |                                       |                                                                                                                                  |  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                                                                                                                                                                                        |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9                                                                                            |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |                                                                                                                                    |       |      | YES                                                                                                                              |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |                                                                                                                                    |       |      | COLDER                                                                                                                           |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                             | 11.0  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 119   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 6.89  | kW   | Tj = -7°C                                                                                                                        | COPd        | 2.66  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 4.32  | kW   | Tj = 2°C                                                                                                                         | COPd        | 3.66  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 3.06  | kW   | Tj = 7°C                                                                                                                         | COPd        | 4.72  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 3.33  | kW   | Tj = 12°C                                                                                                                        | COPd        | 6.25  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 8.94  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 1.79  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                                | 4.20  | kW   | Tj = operating limit                                                                                                             | COPd        | 1.13  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                               | -15   | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | -22   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                               | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                                | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 51    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                               | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 6.80  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                                | 0.014 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                                | 0.024 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                                | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                                | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                                | 8866  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qelec                                                                                                                              | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                                                                                                                                                                                        |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9                                                                                            |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |                                                                                                                                    |       |      | YES                                                                                                                              |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |                                                                                                                                    |       |      | WARMER                                                                                                                           |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                             | 13.7  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 177   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | -     | kW   | Tj = -7°C                                                                                                                        | COPd        | -     | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 13.04 | kW   | Tj = 2°C                                                                                                                         | COPd        | 2.20  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 8.83  | kW   | Tj = 7°C                                                                                                                         | COPd        | 3.91  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 4.08  | kW   | Tj = 12°C                                                                                                                        | COPd        | 5.90  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 8.83  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 3.91  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                                | 13.04 | kW   | Tj = operating limit                                                                                                             | COPd        | 2.20  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                               | 7     | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | 2     | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                               | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                                | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 62    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                               | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 0.66  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                                | 0.014 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                                | 0.024 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                                | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                                | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                                | 4088  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qelec                                                                                                                              | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        | Ferrolì spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolì.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                                                                                                                                                                                        |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |                                                                                                                                  |       |      | OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9                                                                                            |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |                                                                                                                                  |       |      | YES                                                                                                                              |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                  |       |      | NO                                                                                                                               |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                  |       |      | NO                                                                                                                               |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |                                                                                                                                  |       |      | NO                                                                                                                               |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |                                                                                                                                  |       |      | NO                                                                                                                               |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |                                                                                                                                  |       |      | NO                                                                                                                               |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |                                                                                                                                  |       |      | AVERAGE                                                                                                                          |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                           | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                           | 13.0  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 133   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                  |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 11.52 | kW   | Tj = -7°C                                                                                                                        | COPd        | 1.99  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                              | 7.18  | kW   | Tj = 2°C                                                                                                                         | COPd        | 3.34  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                              | 4.67  | kW   | Tj = 7°C                                                                                                                         | COPd        | 4.61  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 3.31  | kW   | Tj = 12°C                                                                                                                        | COPd        | 6.07  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 11.52 | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 1.99  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                              | 10.33 | kW   | Tj = operating limit                                                                                                             | COPd        | 1.80  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                              | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                             | -7    | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | -10   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                             | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                              | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 60    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                  |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                             | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 2.68  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                              | 0.014 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                              | 0.024 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                              | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                         |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4650  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                              | -/68  | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                              | 7895  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qelec                                                                                                                            | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                              | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                  |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

## Technical parameters

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Model(s):                             | OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9 |
| Air-to-water heat pump:               | YES                                   |
| Water-to-water heat pump:             | NO                                    |
| Brine-to-water heat pump:             | NO                                    |
| Low-temperature heat pump:            | NO                                    |
| Equipped with a supplementary heater: | NO                                    |
| Heat pump combination heater:         | NO                                    |
| Declared climate condition:           | COLDER                                |

Parameters are declared for medium-temperature application.

Parameters are declared for medium-temperature (55°C) application.

| Item                                                                                               | Symbol | Value | Unit | Item                                                                                                                             | Symbol     | Value | Unit |
|----------------------------------------------------------------------------------------------------|--------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Rated heat output (*)                                                                              | Prated | 11.8  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$   | 122   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C                                                                                          | Pdh    | 7.64  | kW   | Tj = -7°C                                                                                                                        | COPd       | 2.65  | -    |
| Tj = 2°C                                                                                           | Pdh    | 4.42  | kW   | Tj = 2°C                                                                                                                         | COPd       | 3.79  | -    |
| Tj = 7°C                                                                                           | Pdh    | 2.97  | kW   | Tj = 7°C                                                                                                                         | COPd       | 4.81  | -    |
| Tj = 12°C                                                                                          | Pdh    | 3.43  | kW   | Tj = 12°C                                                                                                                        | COPd       | 6.29  | -    |
| Tj = bivalent temperature                                                                          | Pdh    | 9.61  | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 1.86  | -    |
| Tj = operating limit                                                                               | Pdh    | 5.21  | kW   | Tj = operating limit                                                                                                             | COPd       | 1.23  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh    | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd       | -     | -    |
| Bivalent temperature                                                                               | Tbiv   | -15   | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL        | -22   | °C   |
| Cycling interval capacity for heating                                                              | Pcych  | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc     | -     | -    |
| Degradation co-efficient (**)                                                                      | Cdh    | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL       | 51    | °C   |
| Power consumption in modes other than active mode                                                  |        |       |      | Supplementary heater                                                                                                             |            |       |      |
| Off mode                                                                                           | Poff   | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup       | 6.59  | kW   |
| Standby mode                                                                                       | Psb    | 0.014 | kW   |                                                                                                                                  |            |       |      |
| Thermostat-off mode                                                                                | Pto    | 0.024 | kW   |                                                                                                                                  |            |       |      |
| Crankcase heater mode                                                                              | Pck    | 0.000 | kW   |                                                                                                                                  |            |       |      |
|                                                                                                    |        |       |      | Type of energy input                                                                                                             | Electrical |       |      |

### Other items

|                                     |                 |      |     |                                                                                                |   |      |      |
|-------------------------------------|-----------------|------|-----|------------------------------------------------------------------------------------------------|---|------|------|
| Capacity control                    | variable        |      |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 4650 | m³/h |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | -    | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -    | m³/h |
| Annual energy consumption           | Q <sub>HE</sub> | 9309 | kWh |                                                                                                |   |      |      |

### For heat pump combination heater:

|                                |                   |   |     |                                 |                   |   |     |
|--------------------------------|-------------------|---|-----|---------------------------------|-------------------|---|-----|
| Declared load profile          | -                 |   |     | Water heating energy efficiency | $\eta_{wh}$       | - | %   |
| Daily electricity consumption  | Q <sub>elec</sub> | - | kWh | Daily fuel consumption          | Q <sub>fuel</sub> | - | kWh |
| Annual electricity consumption | AEC               | - | kWh | Annual fuel consumption         | AFC               | - | GJ  |

### Contact details

Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                                                                                                                                                                                        |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |                                                                                                                                      |       |      | OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9                                                                                            |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |                                                                                                                                      |       |      | YES                                                                                                                              |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |                                                                                                                                      |       |      | WARMER                                                                                                                           |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                               | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                               | 13.8  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 176   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                      |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                  | -     | kW   | Tj = -7°C                                                                                                                        | COPd        | -     | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                  | 13.38 | kW   | Tj = 2°C                                                                                                                         | COPd        | 2.29  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                  | 8.86  | kW   | Tj = 7°C                                                                                                                         | COPd        | 3.84  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                  | 4.06  | kW   | Tj = 12°C                                                                                                                        | COPd        | 5.86  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                                  | 8.86  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 3.84  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                                  | 13.38 | kW   | Tj = operating limit                                                                                                             | COPd        | 2.29  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                                  | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                                 | 7     | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | 2     | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                                 | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                                  | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 62    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                      |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                                 | 0.014 | kW   | Rated heat output (**)                                                                                                           | Psup        | 0.42  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                                  | 0.014 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                                  | 0.024 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                                  | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                             |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4650  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                                  | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                                  | 4112  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                    |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qelec                                                                                                                                | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                                  | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |                                                                                                                                  |       |      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|------|--|
| Model(s):                                                                                                                                                                                                                                                              | OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9                                                                                      |       |      |  |
| Air-to-water heat pump:                                                                                                                                                                                                                                                | YES                                                                                                                              |       |      |  |
| Water-to-water heat pump:                                                                                                                                                                                                                                              | NO                                                                                                                               |       |      |  |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              | NO                                                                                                                               |       |      |  |
| Low-temperature heat pump:                                                                                                                                                                                                                                             | NO                                                                                                                               |       |      |  |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  | NO                                                                                                                               |       |      |  |
| Heat pump combination heater:                                                                                                                                                                                                                                          | NO                                                                                                                               |       |      |  |
| Declared climate condition:                                                                                                                                                                                                                                            | AVERAGE                                                                                                                          |       |      |  |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                  |       |      |  |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                  |       |      |  |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                           | Value | Unit |  |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                           | 11.6  | kW   |  |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                  |       |      |  |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 10.24 | kW   |  |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                              | 6.52  | kW   |  |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                              | 4.36  | kW   |  |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 3.29  | kW   |  |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                              | 10.24 | kW   |  |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                              | 9.10  | kW   |  |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                              | -     | kW   |  |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                             | -7    | °C   |  |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                             | -     | kW   |  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                              | 0.9   | --   |  |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                  |       |      |  |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                             | 0.020 | kW   |  |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                              | 0.020 | kW   |  |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                              | 0.030 | kW   |  |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                              | 0.000 | kW   |  |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                  |       |      |  |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                         |       |      |  |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                              | -65   | dB   |  |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                              | 6928  | kWh  |  |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                  |       |      |  |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                |       |      |  |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qclec                                                                                                                            | -     | kWh  |  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                              | -     | kWh  |  |
| Water heating energy efficiency                                                                                                                                                                                                                                        |                                                                                                                                  |       |      |  |
| Daily fuel consumption                                                                                                                                                                                                                                                 | Qfuel                                                                                                                            | -     | kWh  |  |
| Annual fuel consumption                                                                                                                                                                                                                                                | AFC                                                                                                                              | -     | GJ   |  |
| Contact details                                                                                                                                                                                                                                                        | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |       |      |  |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                  |       |      |  |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                  |       |      |  |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |                                                                                                                                    |       |      |                                                                                                                                  |                    |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              | OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9                                                                                        |       |      |                                                                                                                                  |                    |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                | YES                                                                                                                                |       |      |                                                                                                                                  |                    |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              | NO                                                                                                                                 |       |      |                                                                                                                                  |                    |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              | NO                                                                                                                                 |       |      |                                                                                                                                  |                    |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             | NO                                                                                                                                 |       |      |                                                                                                                                  |                    |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  | NO                                                                                                                                 |       |      |                                                                                                                                  |                    |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          | NO                                                                                                                                 |       |      |                                                                                                                                  |                    |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            | COLDER                                                                                                                             |       |      |                                                                                                                                  |                    |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |                    |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                    |       |      |                                                                                                                                  |                    |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol             | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                             | 10.3  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$           | 118   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                    |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 6.63  | kW   | Tj = -7°C                                                                                                                        | COPd               | 2.63  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 4.06  | kW   | Tj = 2°C                                                                                                                         | COPd               | 3.60  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 2.78  | kW   | Tj = 7°C                                                                                                                         | COPd               | 4.54  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 3.33  | kW   | Tj = 12°C                                                                                                                        | COPd               | 6.25  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 8.41  | kW   | Tj = bivalent temperature                                                                                                        | COPd               | 1.84  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                                | 4.19  | kW   | Tj = operating limit                                                                                                             | COPd               | 1.13  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd               | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                               | -15   | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL                | -22   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | P <sub>cyc</sub>                                                                                                                   | -     | kW   | Cycling interval efficiency                                                                                                      | COP <sub>cyc</sub> | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                                | 0.9   | -    | Heating water operating limit temperature                                                                                        | WTOL               | 51    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |                    |       |      |
| Off mode                                                                                                                                                                                                                                                               | P <sub>off</sub>                                                                                                                   | 0.020 | kW   | Rated heat output (**)                                                                                                           | P <sub>sup</sub>   | 6.11  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | P <sub>sb</sub>                                                                                                                    | 0.020 | kW   |                                                                                                                                  |                    |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | P <sub>to</sub>                                                                                                                    | 0.030 | kW   | Type of energy input                                                                                                             | Electrical         |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | P <sub>ck</sub>                                                                                                                    | 0.000 | kW   |                                                                                                                                  |                    |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |                    |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -                  | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | L <sub>WA</sub>                                                                                                                    | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -                  | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | Q <sub>HE</sub>                                                                                                                    | 8420  | kWh  |                                                                                                                                  |                    |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                    |       |      |                                                                                                                                  |                    |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$        | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Q <sub>elec</sub>                                                                                                                  | -     | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub>  | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC                | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |                                                                                                                                  |                    |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                    |       |      |                                                                                                                                  |                    |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |                    |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

## Technical parameters

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| Model(s):                             | OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9 |
| Air-to-water heat pump:               | YES                                         |
| Water-to-water heat pump:             | NO                                          |
| Brine-to-water heat pump:             | NO                                          |
| Low-temperature heat pump:            | NO                                          |
| Equipped with a supplementary heater: | NO                                          |
| Heat pump combination heater:         | NO                                          |
| Declared climate condition:           | WARMER                                      |

Parameters are declared for medium-temperature application.

Parameters are declared for medium-temperature (55°C) application.

| Item                                                                                               | Symbol | Value | Unit |
|----------------------------------------------------------------------------------------------------|--------|-------|------|
| Rated heat output (*)                                                                              | Prated | 12.5  | kW   |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |
| Tj = -7°C                                                                                          | Pdh    | -     | kW   |
| Tj = 2°C                                                                                           | Pdh    | 12.07 | kW   |
| Tj = 7°C                                                                                           | Pdh    | 8.04  | kW   |
| Tj = 12°C                                                                                          | Pdh    | 3.75  | kW   |
| Tj = bivalent temperature                                                                          | Pdh    | 8.04  | kW   |
| Tj = operating limit                                                                               | Pdh    | 12.07 | kW   |
| For air-to-water heat pumps: Tj = -15°C                                                            | Pdh    | -     | kW   |
| Bivalent temperature                                                                               | Tbiv   | 7     | °C   |
| Cycling interval capacity for heating                                                              | Pcych  | -     | kW   |
| Degradation co-efficient (**)                                                                      | Cdh    | 0.9   | --   |
| Power consumption in modes other than active mode                                                  |        |       |      |
| Off mode                                                                                           | Poff   | 0.020 | kW   |
| Standby mode                                                                                       | Psb    | 0.020 | kW   |
| Thermostat-off mode                                                                                | Pto    | 0.030 | kW   |
| Crankcase heater mode                                                                              | Pck    | 0.000 | kW   |

| Item                                                                                                                             | Symbol     | Value | Unit |
|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Seasonal space heating energy efficiency                                                                                         | η s        | 174   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C                                                                                                                        | COPd       | -     | -    |
| Tj = 2°C                                                                                                                         | COPd       | 2.31  | -    |
| Tj = 7°C                                                                                                                         | COPd       | 3.86  | -    |
| Tj = 12°C                                                                                                                        | COPd       | 5.70  | -    |
| Tj = bivalent temperature                                                                                                        | COPd       | 3.86  | -    |
| Tj = operating limit                                                                                                             | COPd       | 2.31  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd       | -     | -    |
| For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL        | 2     | °C   |
| Cycling interval efficiency                                                                                                      | COPcyc     | -     | -    |
| Heating water operating limit temperature                                                                                        | WTOL       | 62    | °C   |
| Supplementary heater                                                                                                             |            |       |      |
| Rated heat output (**)                                                                                                           | Psup       | 0.43  | kW   |
| Type of energy input                                                                                                             | Electrical |       |      |

|                                     |          |      |     |                                                                                                |   |      |      |
|-------------------------------------|----------|------|-----|------------------------------------------------------------------------------------------------|---|------|------|
| Other items                         |          |      |     |                                                                                                |   |      |      |
| Capacity control                    | variable |      |     | For air-to-water heat pumps: Rated air flow rate, outdoors                                     | - | 4060 | m³/h |
| Sound power level, indoors/outdoors | LWA      | -    | dB  | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | -    | m³/h |
| Annual energy consumption           | QHE      | 3780 | kWh |                                                                                                |   |      |      |

For heat pump combination heater:

|                                |       |   |     |                                 |             |   |     |
|--------------------------------|-------|---|-----|---------------------------------|-------------|---|-----|
| Declared load profile          | -     |   |     | Water heating energy efficiency | $\eta_{wh}$ | - | %   |
| Daily electricity consumption  | Qelec | - | kWh | Daily fuel consumption          | Qfuel       | - | kWh |
| Annual electricity consumption | AEC   | - | kWh | Annual fuel consumption         | AFC         | - | GJ  |

Contact details Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |  |                                                                                                                                  |       | OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9 |                                                                                                                                  |  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |  |                                                                                                                                  |       | YES                                         |                                                                                                                                  |  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |  |                                                                                                                                  |       | AVERAGE                                     |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| Item                                                                                                                                                                                                                                                                   |  | Symbol                                                                                                                           | Value | Unit                                        | Item                                                                                                                             |  | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  |  | Prated                                                                                                                           | 12.08 | kW                                          | Seasonal space heating energy efficiency                                                                                         |  | $\eta_s$    | 135   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |  |                                                                                                                                  |       |                                             | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |  |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                              | 10.68 | kW                                          | Tj = -7°C                                                                                                                        |  | COPd        | 2.01  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                              | 6.86  | kW                                          | Tj = 2°C                                                                                                                         |  | COPd        | 3.43  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                              | 4.63  | kW                                          | Tj = 7°C                                                                                                                         |  | COPd        | 4.66  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                              | 3.31  | kW                                          | Tj = 12°C                                                                                                                        |  | COPd        | 6.13  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              |  | Pdh                                                                                                                              | 10.68 | kW                                          | Tj = bivalent temperature                                                                                                        |  | COPd        | 2.01  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   |  | Pdh                                                                                                                              | 9.19  | kW                                          | Tj = operating limit                                                                                                             |  | COPd        | 1.76  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                |  | Pdh                                                                                                                              | -     | kW                                          | For air-to-water heat pumps: Tj = -15°C                                                                                          |  | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   |  | Tbiv                                                                                                                             | -7    | °C                                          | For air-to-water heat pumps: Operation limit temperature                                                                         |  | TOL         | -10   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  |  | Pcyc                                                                                                                             | -     | kW                                          | Cycling interval efficiency                                                                                                      |  | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          |  | Cdh                                                                                                                              | 0.9   | --                                          | Heating water operating limit temperature                                                                                        |  | WTOL        | 60    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |  |                                                                                                                                  |       |                                             | Supplementary heater                                                                                                             |  |             |       |      |
| Off mode                                                                                                                                                                                                                                                               |  | Poff                                                                                                                             | 0.020 | kW                                          | Rated heat output (**)                                                                                                           |  | Psup        | 1.40  | kW   |
| Standby mode                                                                                                                                                                                                                                                           |  | Psb                                                                                                                              | 0.020 | kW                                          | Type of energy input                                                                                                             |  | Electrical  |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    |  | Pto                                                                                                                              | 0.030 | kW                                          |                                                                                                                                  |  |             |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  |  | Pck                                                                                                                              | 0.000 | kW                                          |                                                                                                                                  |  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       |  | variable                                                                                                                         |       |                                             | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       |  | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    |  | LWA                                                                                                                              | -/65  | dB                                          | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   |  | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              |  | QHE                                                                                                                              | 7203  | kWh                                         |                                                                                                                                  |  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  |  | -                                                                                                                                |       |                                             | Water heating energy efficiency                                                                                                  |  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          |  | Qelec                                                                                                                            | -     | kWh                                         | Daily fuel consumption                                                                                                           |  | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         |  | AEC                                                                                                                              | -     | kWh                                         | Annual fuel consumption                                                                                                          |  | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        |  | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |       |                                             |                                                                                                                                  |  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |  |                                                                                                                                   |       |      |                                                                                                                                  |  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |  | OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9                                                                                       |       |      |                                                                                                                                  |  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |  | YES                                                                                                                               |       |      |                                                                                                                                  |  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |  | NO                                                                                                                                |       |      |                                                                                                                                  |  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |  | NO                                                                                                                                |       |      |                                                                                                                                  |  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |  | NO                                                                                                                                |       |      |                                                                                                                                  |  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |  | NO                                                                                                                                |       |      |                                                                                                                                  |  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |  | NO                                                                                                                                |       |      |                                                                                                                                  |  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |  | COLDER                                                                                                                            |       |      |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |  |                                                                                                                                   |       |      |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |  |                                                                                                                                   |       |      |                                                                                                                                  |  |             |       |      |
| Item                                                                                                                                                                                                                                                                   |  | Symbol                                                                                                                            | Value | Unit | Item                                                                                                                             |  | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  |  | Prated                                                                                                                            | 11.0  | kW   | Seasonal space heating energy efficiency                                                                                         |  | $\eta_s$    | 119   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |  |                                                                                                                                   |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |  |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                               | 6.89  | kW   | Tj = -7°C                                                                                                                        |  | COPd        | 2.66  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                               | 4.32  | kW   | Tj = 2°C                                                                                                                         |  | COPd        | 3.66  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                               | 3.06  | kW   | Tj = 7°C                                                                                                                         |  | COPd        | 4.72  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                               | 3.33  | kW   | Tj = 12°C                                                                                                                        |  | COPd        | 6.25  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              |  | Pdh                                                                                                                               | 8.94  | kW   | Tj = bivalent temperature                                                                                                        |  | COPd        | 1.79  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   |  | Pdh                                                                                                                               | 4.20  | kW   | Tj = operating limit                                                                                                             |  | COPd        | 1.13  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                |  | Pdh                                                                                                                               | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          |  | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   |  | Tbiv                                                                                                                              | -15   | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         |  | TOL         | -22   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  |  | Pcyc                                                                                                                              | -     | kW   | Cycling interval efficiency                                                                                                      |  | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          |  | Cdh                                                                                                                               | 0.9   | --   | Heating water operating limit temperature                                                                                        |  | WTOL        | 51    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |  |                                                                                                                                   |       |      | Supplementary heater                                                                                                             |  |             |       |      |
| Off mode                                                                                                                                                                                                                                                               |  | Poff                                                                                                                              | 0.020 | kW   | Rated heat output (**)                                                                                                           |  | Psup        | 6.80  | kW   |
| Standby mode                                                                                                                                                                                                                                                           |  | Psb                                                                                                                               | 0.020 | kW   | Type of energy input                                                                                                             |  | Electrical  |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    |  | Pto                                                                                                                               | 0.030 | kW   |                                                                                                                                  |  |             |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  |  | Pck                                                                                                                               | 0.000 | kW   |                                                                                                                                  |  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |  |                                                                                                                                   |       |      |                                                                                                                                  |  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       |  | variable                                                                                                                          |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       |  | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    |  | LWA                                                                                                                               | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   |  | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              |  | QHE                                                                                                                               | 8867  | kWh  |                                                                                                                                  |  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |  |                                                                                                                                   |       |      |                                                                                                                                  |  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  |  | -                                                                                                                                 |       |      | Water heating energy efficiency                                                                                                  |  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          |  | Qelec                                                                                                                             | -     | kWh  | Daily fuel consumption                                                                                                           |  | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         |  | AEC                                                                                                                               | -     | kWh  | Annual fuel consumption                                                                                                          |  | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        |  | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |                                                                                                                                  |  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |                                                                                                                                   |       |      |                                                                                                                                  |  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |  |                                                                                                                                   |       |      |                                                                                                                                  |  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                                                                                                                                                                                        |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9                                                                                      |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |                                                                                                                                    |       |      | YES                                                                                                                              |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |                                                                                                                                    |       |      | NO                                                                                                                               |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |                                                                                                                                    |       |      | WARMER                                                                                                                           |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                             | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                             | 13.7  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 176   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                    |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | -     | kW   | Tj = -7°C                                                                                                                        | COPd        | -     | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 13.04 | kW   | Tj = 2°C                                                                                                                         | COPd        | 2.20  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                | 8.83  | kW   | Tj = 7°C                                                                                                                         | COPd        | 3.91  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 4.08  | kW   | Tj = 12°C                                                                                                                        | COPd        | 5.90  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                                | 8.83  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 3.91  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                                | 13.04 | kW   | Tj = operating limit                                                                                                             | COPd        | 2.20  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                                | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                               | 7     | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | 2     | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                               | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                                | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 62    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                    |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                               | 0.020 | kW   | Rated heat output (**)                                                                                                           | Psup        | 0.66  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                                | 0.020 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                                | 0.030 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                                | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                           |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                                | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                                | 4092  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                  |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qelec                                                                                                                              | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                                | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
|                                                                                                                                                                                                                                                                        |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| Contact details                                                                                                                                                                                                                                                        | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                    |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 - Modo riscaldamento - Clima medio - Media temperatura (55°C) / Heating mode - Average climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |  |                                                                                                                                  |       | OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 |                                                                                                                                  |  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |  |                                                                                                                                  |       | YES                                         |                                                                                                                                  |  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |  |                                                                                                                                  |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |  |                                                                                                                                  |       | AVERAGE                                     |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| Item                                                                                                                                                                                                                                                                   |  | Symbol                                                                                                                           | Value | Unit                                        | Item                                                                                                                             |  | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  |  | Prated                                                                                                                           | 13.0  | kW                                          | Seasonal space heating energy efficiency                                                                                         |  | $\eta_s$    | 133   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |  |                                                                                                                                  |       |                                             | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |  |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                              | 11.52 | kW                                          | Tj = -7°C                                                                                                                        |  | COPd        | 1.99  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                              | 7.18  | kW                                          | Tj = 2°C                                                                                                                         |  | COPd        | 3.34  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                              | 4.67  | kW                                          | Tj = 7°C                                                                                                                         |  | COPd        | 4.61  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                              | 3.31  | kW                                          | Tj = 12°C                                                                                                                        |  | COPd        | 6.07  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              |  | Pdh                                                                                                                              | 11.52 | kW                                          | Tj = bivalent temperature                                                                                                        |  | COPd        | 1.99  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   |  | Pdh                                                                                                                              | 10.33 | kW                                          | Tj = operating limit                                                                                                             |  | COPd        | 1.80  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                |  | Pdh                                                                                                                              | -     | kW                                          | For air-to-water heat pumps: Tj = -15°C                                                                                          |  | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   |  | Tbiv                                                                                                                             | -7    | °C                                          | For air-to-water heat pumps: Operation limit temperature                                                                         |  | TOL         | -10   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  |  | Pcyc                                                                                                                             | -     | kW                                          | Cycling interval efficiency                                                                                                      |  | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          |  | Cdh                                                                                                                              | 0.9   | --                                          | Heating water operating limit temperature                                                                                        |  | WTOL        | 60    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |  |                                                                                                                                  |       |                                             | Supplementary heater                                                                                                             |  |             |       |      |
| Off mode                                                                                                                                                                                                                                                               |  | Poff                                                                                                                             | 0.020 | kW                                          | Rated heat output (**)                                                                                                           |  | Psup        | 2.67  | kW   |
| Standby mode                                                                                                                                                                                                                                                           |  | Psb                                                                                                                              | 0.020 | kW                                          | Type of energy input                                                                                                             |  | Electrical  |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    |  | Pto                                                                                                                              | 0.030 | kW                                          |                                                                                                                                  |  |             |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  |  | Pck                                                                                                                              | 0.000 | kW                                          |                                                                                                                                  |  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       |  | variable                                                                                                                         |       |                                             | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       |  | -           | 4650  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    |  | LWA                                                                                                                              | -/68  | dB                                          | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   |  | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              |  | QHE                                                                                                                              | 7896  | kWh                                         |                                                                                                                                  |  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  |  | -                                                                                                                                |       |                                             | Water heating energy efficiency                                                                                                  |  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          |  | Qelec                                                                                                                            | -     | kWh                                         | Daily fuel consumption                                                                                                           |  | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         |  | AEC                                                                                                                              | -     | kWh                                         | Annual fuel consumption                                                                                                          |  | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        |  | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |       |                                             |                                                                                                                                  |  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |  |                                                                                                                                  |       |                                             |                                                                                                                                  |  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 - Modo riscaldamento - Clima più freddo - Media temperatura (55°C) / Heating mode - Colder climate - Medium temperature (55°C)

## Technical parameters

|                                                                                                                                                                                                                                                                        |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |                                                                                                                                      |       |      | OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9                                                                                      |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |                                                                                                                                      |       |      | YES                                                                                                                              |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |                                                                                                                                      |       |      | NO                                                                                                                               |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |                                                                                                                                      |       |      | COLDER                                                                                                                           |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                               | Value | Unit | Item                                                                                                                             | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                               | 11.8  | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$    | 122   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                                      |       |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                  | 7.64  | kW   | Tj = -7°C                                                                                                                        | COPd        | 2.65  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                  | 4.42  | kW   | Tj = 2°C                                                                                                                         | COPd        | 3.79  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                                  | 2.97  | kW   | Tj = 7°C                                                                                                                         | COPd        | 4.81  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                                  | 3.43  | kW   | Tj = 12°C                                                                                                                        | COPd        | 6.29  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                                  | 9.61  | kW   | Tj = bivalent temperature                                                                                                        | COPd        | 1.86  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                                  | 5.21  | kW   | Tj = operating limit                                                                                                             | COPd        | 1.23  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                                  | -     | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                                 | -15   | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL         | -22   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                                 | -     | kW   | Cycling interval efficiency                                                                                                      | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                                  | 0.9   | --   | Heating water operating limit temperature                                                                                        | WTOL        | 51    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                                      |       |      | Supplementary heater                                                                                                             |             |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                                 | 0.020 | kW   | Rated heat output (**)                                                                                                           | Psup        | 6.59  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                                  | 0.020 | kW   |                                                                                                                                  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                                  | 0.030 | kW   | Type of energy input                                                                                                             | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                                  | 0.000 | kW   |                                                                                                                                  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                             |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -           | 4650  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                                  | -     | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                                  | 9310  | kWh  |                                                                                                                                  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | -                                                                                                                                    |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qelec                                                                                                                                | -     | kWh  | Daily fuel consumption                                                                                                           | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                                  | -     | kWh  | Annual fuel consumption                                                                                                          | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        | Ferrolli spa ↗ 37047 San Bonifacio (Verona) Italy ↗ Via Ritonda 78/A - tel. +39.045.6139411 ↗ fax +39.045.6100933 ↗ www.ferrolli.com |       |      |                                                                                                                                  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                                      |       |      |                                                                                                                                  |             |       |      |

# FOGLIO DATI TECNICI ERP PER RISCALDAMENTO AMBIENTE / ERP TECHNICAL DATA SHEET FOR SPACE HEATING

OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 - Modo riscaldamento - Clima più caldo - Media temperatura (55°C) / Heating mode - Warmer climate - Medium temperature (55°C)

| Technical parameters                                                                                                                                                                                                                                                   |  |                                                                                                                                    |       |                                             |                                                                                                                                  |  |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |  |                                                                                                                                    |       | OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 |                                                                                                                                  |  |             |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |  |                                                                                                                                    |       | YES                                         |                                                                                                                                  |  |             |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                    |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |  |                                                                                                                                    |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |  |                                                                                                                                    |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |  |                                                                                                                                    |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |  |                                                                                                                                    |       | NO                                          |                                                                                                                                  |  |             |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |  |                                                                                                                                    |       | WARMER                                      |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |  |                                                                                                                                    |       |                                             |                                                                                                                                  |  |             |       |      |
| Parameters are declared for medium-temperature (55°C) application.                                                                                                                                                                                                     |  |                                                                                                                                    |       |                                             |                                                                                                                                  |  |             |       |      |
| Item                                                                                                                                                                                                                                                                   |  | Symbol                                                                                                                             | Value | Unit                                        | Item                                                                                                                             |  | Symbol      | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  |  | Prated                                                                                                                             | 13.8  | kW                                          | Seasonal space heating energy efficiency                                                                                         |  | $\eta_s$    | 176   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |  |                                                                                                                                    |       |                                             | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |  |             |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                | -     | kW                                          | Tj = -7°C                                                                                                                        |  | COPd        | -     | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                                | 13.38 | kW                                          | Tj = 2°C                                                                                                                         |  | COPd        | 2.29  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               |  | Pdh                                                                                                                                | 8.86  | kW                                          | Tj = 7°C                                                                                                                         |  | COPd        | 3.84  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                | 4.06  | kW                                          | Tj = 12°C                                                                                                                        |  | COPd        | 5.86  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              |  | Pdh                                                                                                                                | 8.86  | kW                                          | Tj = bivalent temperature                                                                                                        |  | COPd        | 3.84  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   |  | Pdh                                                                                                                                | 13.38 | kW                                          | Tj = operating limit                                                                                                             |  | COPd        | 2.29  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                |  | Pdh                                                                                                                                | -     | kW                                          | For air-to-water heat pumps: Tj = -15°C                                                                                          |  | COPd        | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   |  | Tbiv                                                                                                                               | 7     | °C                                          | For air-to-water heat pumps: Operation limit temperature                                                                         |  | TOL         | 2     | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  |  | Pcyc                                                                                                                               | -     | kW                                          | Cycling interval efficiency                                                                                                      |  | COPcyc      | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          |  | Cdh                                                                                                                                | 0.9   | --                                          | Heating water operating limit temperature                                                                                        |  | WTOL        | 62    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |  |                                                                                                                                    |       |                                             | Supplementary heater                                                                                                             |  |             |       |      |
| Off mode                                                                                                                                                                                                                                                               |  | Poff                                                                                                                               | 0.014 | kW                                          | Rated heat output (**)                                                                                                           |  | Psup        | 0.42  | kW   |
| Standby mode                                                                                                                                                                                                                                                           |  | Psb                                                                                                                                | 0.014 | kW                                          |                                                                                                                                  |  |             |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    |  | Pto                                                                                                                                | 0.029 | kW                                          | Type of energy input                                                                                                             |  | Electrical  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  |  | Pck                                                                                                                                | 0.000 | kW                                          |                                                                                                                                  |  |             |       |      |
| Other items                                                                                                                                                                                                                                                            |  |                                                                                                                                    |       |                                             |                                                                                                                                  |  |             |       |      |
| Capacity control                                                                                                                                                                                                                                                       |  | variable                                                                                                                           |       |                                             | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       |  | -           | 4650  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    |  | LWA                                                                                                                                | -     | dB                                          | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   |  | -           | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              |  | QHE                                                                                                                                | 4116  | kWh                                         |                                                                                                                                  |  |             |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |  |                                                                                                                                    |       |                                             |                                                                                                                                  |  |             |       |      |
| Declared load profile                                                                                                                                                                                                                                                  |  | -                                                                                                                                  |       |                                             | Water heating energy efficiency                                                                                                  |  | $\eta_{wh}$ | -     | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          |  | Qelec                                                                                                                              | -     | kWh                                         | Daily fuel consumption                                                                                                           |  | Qfuel       | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         |  | AEC                                                                                                                                | -     | kWh                                         | Annual fuel consumption                                                                                                          |  | AFC         | -     | GJ   |
| Contact details                                                                                                                                                                                                                                                        |  | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |       |                                             |                                                                                                                                  |  |             |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |  |                                                                                                                                    |       |                                             |                                                                                                                                  |  |             |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |  |                                                                                                                                    |       |                                             |                                                                                                                                  |  |             |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 4 / 4 HI3 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                         |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                               |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 4 / 4 HI3           |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                 |                      |                                                                                                                                      |                                  | Air to water                         |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                     |                      |                                                                                                                                      |                                  | Water                                |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                   |                      |                                                                                                                                      |                                  | Compressor driven vapour compression |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                   |                      |                                                                                                                                      |                                  | Electric motor                       |                                                                                                  |                  |       |      |
|                                                                                                                                                         |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Item                                                                                                                                                    | Symbol               | Value                                                                                                                                | Unit                             |                                      | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                  | P <sub>rated,c</sub> | 4.7                                                                                                                                  | kW                               |                                      | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 197   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                     |                      |                                                                                                                                      |                                  |                                      | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                   | P <sub>dc</sub>      | 4.66                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 3.52  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                   | P <sub>dc</sub>      | 3.66                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 4.76  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                   | P <sub>dc</sub>      | 2.21                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 5.72  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                   | P <sub>dc</sub>      | 0.94                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 5.72  | -    |
|                                                                                                                                                         |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                               | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                      |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                     |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                      | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                      | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                      | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                             |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                        | variable             |                                                                                                                                      |                                  |                                      | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 2770  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                   | L <sub>WA</sub>      | -/56                                                                                                                                 | dB                               |                                      |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                            | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                      | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                  | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                      |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                         |                      | Low temperature application                                                                                                          |                                  |                                      |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                         |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                      |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 4 / 4 HI3 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 4 / 4 HI3           |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                         |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                       |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                      | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 4.5                                                                                                                                  | kW                               |                                      | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 308   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                      | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 4.51                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 5.54  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 3.44                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 7.23  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 2.19                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 8.94  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 1.13                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 10.48 | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                      |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                      | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                      | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                      | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 2770  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/56                                                                                                                                 | dB                               |                                      |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                      | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                      |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                       |                                  |                                      |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                      |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 6 / 6 HI3 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 6 / 6 HI3           |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                         |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                       |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                      | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 6.3                                                                                                                                  | kW                               |                                      | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 211   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                      | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 6.35                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 2.93  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 4.76                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 4.53  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 3.02                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 6.32  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 1.39                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 7.20  | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                      |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                      | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                      | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                      | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 2770  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/60                                                                                                                                 | dB                               |                                      |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                      | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                      |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                          |                                  |                                      |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                      |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 6 / 6 HI3 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 6 / 6 HI3           |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                         |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                       |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                      | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 6.5                                                                                                                                  | kW                               |                                      | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 325   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                      | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 6.55                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 4.69  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 4.84                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 7.16  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 3.26                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 9.64  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 1.41                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 11.48 | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                      |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                      | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                      | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                      | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 2770  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/58                                                                                                                                 | dB                               |                                      |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                      | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                      |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                       |                                  |                                      |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                      |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                 |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9   |                                                                                                 |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                         |                                                                                                 |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                |                                                                                                 |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression |                                                                                                 |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                       |                                                                                                 |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                 |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                      | Item                                                                                            | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 7.4                                                                                                                                  | kW                               |                                      | Seasonal space cooling energy efficiency                                                        | η <sub>s,c</sub> | 230   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                      | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>      |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 7.38                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+35°C                                                                           | EER <sub>d</sub> | 3.39  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 5.72                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+30°C                                                                           | EER <sub>d</sub> | 4.71  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 3.62                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+25°C                                                                           | EER <sub>d</sub> | 6.65  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 1.64                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+20°C                                                                           | EER <sub>d</sub> | 8.55  | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                 |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                      |                                                                                                 |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                      |                                                                                                 |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                      | Crankcase heater mode                                                                           | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                      | Standby mode                                                                                    | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                      |                                                                                                 |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                      | For air-to-water comfort chillers: air flow rate, outdoor measured                              | -                | 4030  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/60                                                                                                                                 | dB                               |                                      | For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                      |                                                                                                 |                  |       |      |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                      |                                                                                                 |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                          |                                  |                                      |                                                                                                 |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                      |                                                                                                 |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                      |                                                                                                 |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 8 / 8 HI3 / 8 HI9   |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                         |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                       |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                      | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 8.4                                                                                                                                  | kW                               |                                      | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 355   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                      | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 8.37                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 5.09  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 6.47                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 7.02  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 4.31                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 10.67 | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 1.80                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 13.61 | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                      |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                      | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                      | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                      | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4030  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -60                                                                                                                                  | dB                               |                                      |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                      | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                      |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                       |                                  |                                      |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                      |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|-------------------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                    |                                  | OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 |                                                                                                  |                  |       |                   |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                    |                                  | Air to water                          |                                                                                                  |                  |       |                   |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                    |                                  | Water                                 |                                                                                                  |                  |       |                   |
| Type:                                                                                                                                                      |                      |                                                                                                                                    |                                  | Compressor driven vapour compression  |                                                                                                  |                  |       |                   |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                    |                                  | Electric motor                        |                                                                                                  |                  |       |                   |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |                   |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                              | Unit                             |                                       | Item                                                                                             | Symbol           | Value | Unit              |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 8.7                                                                                                                                | kW                               |                                       | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 236   | %                 |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                    |                                  |                                       | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |                   |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 8.73                                                                                                                               | kW                               |                                       | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 3.21  | -                 |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 6.68                                                                                                                               | kW                               |                                       | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 4.47  | -                 |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 4.26                                                                                                                               | kW                               |                                       | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 7.02  | -                 |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 1.94                                                                                                                               | kW                               |                                       | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 9.54  | -                 |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |                   |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                | -                                |                                       |                                                                                                  |                  |       |                   |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |                   |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                              | kW                               |                                       | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW                |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                              | kW                               |                                       | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW                |
| Other items                                                                                                                                                |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |                   |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                    |                                  |                                       | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4030  | m <sup>3</sup> /h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/60                                                                                                                               | dB                               |                                       | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m <sup>3</sup> /h |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                  | mg/kWh input GCV                 |                                       |                                                                                                  |                  |       |                   |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                | kg CO <sub>2</sub> eq (100years) |                                       |                                                                                                  |                  |       |                   |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                        |                                  |                                       |                                                                                                  |                  |       |                   |
| Contact details                                                                                                                                            |                      | Ferrolì spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolì.com |                                  |                                       |                                                                                                  |                  |       |                   |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |                   |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 10 / 10 HI3 / 10 HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                          |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                 |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression  |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                        |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                       | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 10.0                                                                                                                                 | kW                               |                                       | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 348   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                       | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 10.01                                                                                                                                | kW                               |                                       | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 4.64  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 7.71                                                                                                                                 | kW                               |                                       | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 6.45  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 5.03                                                                                                                                 | kW                               |                                       | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 10.36 | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 2.32                                                                                                                                 | kW                               |                                       | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 14.98 | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                       |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                       | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                       | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                       | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4030  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/60                                                                                                                                 | dB                               |                                       |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                       | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                       |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                       |                                  |                                       |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                       |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                    |                                  | OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                    |                                  | Air to water                          |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                    |                                  | Water                                 |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                    |                                  | Compressor driven vapour compression  |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                    |                                  | Electric motor                        |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                              | Unit                             |                                       | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 11.3                                                                                                                               | kW                               |                                       | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 192   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                    |                                  |                                       | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 11.31                                                                                                                              | kW                               |                                       | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 2.61  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 8.76                                                                                                                               | kW                               |                                       | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 3.93  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 5.81                                                                                                                               | kW                               |                                       | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 5.73  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 2.63                                                                                                                               | kW                               |                                       | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 6.75  | -    |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                | -                                |                                       |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                              | kW                               |                                       | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                              | kW                               |                                       | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                    |                                  |                                       | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4060  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/65                                                                                                                               | dB                               |                                       |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                  | mg/kWh input GCV                 |                                       | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                | kg CO <sub>2</sub> eq (100years) |                                       |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                        |                                  |                                       |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |                                  |                                       |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                    |                                  |                                       |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 12 / 12 HI3 / 12 HI9 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | Mod. 12 / 12 HI3 / 12 HI9OMNIA M 3.2 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                         |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                       |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                      | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 11.8                                                                                                                                 | kW                               |                                      | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 281   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                      | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 11.77                                                                                                                                | kW                               |                                      | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 3.87  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 9.21                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 5.50  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 5.74                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 8.66  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 3.33                                                                                                                                 | kW                               |                                      | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 10.07 | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                      |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                      | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                      | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                      | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4060  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/64                                                                                                                                 | dB                               |                                      | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                      |                                                                                                  |                  |       |      |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                      |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                       |                                  |                                      |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolis spa → 37047 San Bonifacio (Verona) Italy → Via Ritonda 78/A - tel. +39.045.6139411 → fax +39.045.6100933 → www.ferrolis.com |                                  |                                      |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                      |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                  |                                  |                                       |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                  |                                  | OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                  |                                  | Air to water                          |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                  |                                  | Water                                 |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                  |                                  | Compressor driven vapour compression  |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                  |                                  | Electric motor                        |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                  |                                  |                                       |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                            | Unit                             |                                       | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 12.2                                                                                                                             | kW                               |                                       | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 191   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                  |                                  |                                       | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 12.19                                                                                                                            | kW                               |                                       | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 2.46  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 9.41                                                                                                                             | kW                               |                                       | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 3.85  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 6.16                                                                                                                             | kW                               |                                       | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 5.80  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 2.63                                                                                                                             | kW                               |                                       | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 6.74  | -    |
|                                                                                                                                                            |                      |                                                                                                                                  |                                  |                                       |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                              | -                                |                                       |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                  |                                  |                                       |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                            | kW                               |                                       | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                            | kW                               |                                       | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                  |                                  |                                       |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                  |                                  |                                       | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4060  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/65                                                                                                                             | dB                               |                                       |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                | mg/kWh input GCV                 |                                       | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                              | kg CO <sub>2</sub> eq (100years) |                                       |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |                                  |                                       |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                  |                                  |                                       |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |       |                                  |                                                                                                                                      |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |       |                                  | OMNIA M 3.2 Mod. 14 / 14 HI3 / 14 HI9                                                                                                |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |       |                                  | Air to water                                                                                                                         |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |       |                                  | Water                                                                                                                                |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |       |                                  | Compressor driven vapour compression                                                                                                 |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |       |                                  | Electric motor                                                                                                                       |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |       |                                  |                                                                                                                                      |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value | Unit                             |                                                                                                                                      | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 13.3  | kW                               |                                                                                                                                      | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 273   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |       |                                  |                                                                                                                                      | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 13.30 | kW                               |                                                                                                                                      | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 3.47  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 10.20 | kW                               |                                                                                                                                      | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 5.26  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 6.57  | kW                               |                                                                                                                                      | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 8.45  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 3.33  | kW                               |                                                                                                                                      | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 10.07 | -    |
|                                                                                                                                                            |                      |       |                                  |                                                                                                                                      |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9   | -                                |                                                                                                                                      |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |       |                                  |                                                                                                                                      |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014 | kW                               |                                                                                                                                      | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010 | kW                               |                                                                                                                                      | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |       |                                  |                                                                                                                                      |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |       |                                  |                                                                                                                                      | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4060  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/64  | dB                               |                                                                                                                                      | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -     | mg/kWh input GCV                 |                                                                                                                                      |                                                                                                  |                  |       |      |
| GWP of the refrigerant                                                                                                                                     | -                    | 675   | kg CO <sub>2</sub> eq (100years) |                                                                                                                                      |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      |       |                                  | Medium temperature application                                                                                                       |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      |       |                                  | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |       |                                  |                                                                                                                                      |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                          |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                 |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression  |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                        |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                       | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 14.3                                                                                                                                 | kW                               |                                       | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 184   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                       | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 14.31                                                                                                                                | kW                               |                                       | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 2.47  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 10.68                                                                                                                                | kW                               |                                       | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 3.63  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 6.76                                                                                                                                 | kW                               |                                       | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 5.27  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 3.41                                                                                                                                 | kW                               |                                       | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 7.29  | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                       |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                       | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                       | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                       | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4650  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -69                                                                                                                                  | dB                               |                                       |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                       | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                       |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                          |                                  |                                       |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                       |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 16 / 16 HI3 / 16 HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                          |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                 |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression  |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                        |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                       | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 15.4                                                                                                                                 | kW                               |                                       | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 267   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                       | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 15.40                                                                                                                                | kW                               |                                       | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 3.50  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 11.42                                                                                                                                | kW                               |                                       | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 5.14  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 7.27                                                                                                                                 | kW                               |                                       | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 7.83  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 3.40                                                                                                                                 | kW                               |                                       | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 10.35 | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                       |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.014                                                                                                                                | kW                               |                                       | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                       | Standby mode                                                                                     | P <sub>SB</sub>  | 0.014 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                       | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4650  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/69                                                                                                                                 | dB                               |                                       | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                       |                                                                                                  |                  |       |      |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                       |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                       |                                  |                                       |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolli.com |                                  |                                       |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                       |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                             |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                      |                                  | OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                      |                                  | Air to water                                |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                      |                                  | Water                                       |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                      |                                  | Compressor driven vapour compression        |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                      |                                  | Electric motor                              |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                             |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                                | Unit                             |                                             | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 11.3                                                                                                                                 | kW                               |                                             | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 191   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                      |                                  |                                             | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 11.31                                                                                                                                | kW                               |                                             | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 2.61  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 8.76                                                                                                                                 | kW                               |                                             | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 3.93  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 5.81                                                                                                                                 | kW                               |                                             | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 5.73  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 2.63                                                                                                                                 | kW                               |                                             | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 6.75  | -    |
|                                                                                                                                                            |                      |                                                                                                                                      |                                  |                                             |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                  | -                                |                                             |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                      |                                  |                                             |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.020                                                                                                                                | kW                               |                                             | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                                | kW                               |                                             | Standby mode                                                                                     | P <sub>SB</sub>  | 0.020 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                      |                                  |                                             |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                      |                                  |                                             | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4060  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/65                                                                                                                                 | dB                               |                                             |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                    | mg/kWh input GCV                 |                                             | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                  | kg CO <sub>2</sub> eq (100years) |                                             |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                          |                                  |                                             |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolli spa ~ 37047 San Bonifacio (Verona) Italy ~ Via Ritonda 78/A - tel. +39.045.6139411 ~ fax +39.045.6100933 ~ www.ferrolli.com |                                  |                                             |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                      |                                  |                                             |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|-------------------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                    |                                  | OMNIA M 3.2 Mod. 12-T / 12-T HI3 / 12-T HI9 |                                                                                                  |                  |       |                   |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                    |                                  | Air to water                                |                                                                                                  |                  |       |                   |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                    |                                  | Water                                       |                                                                                                  |                  |       |                   |
| Type:                                                                                                                                                      |                      |                                                                                                                                    |                                  | Compressor driven vapour compression        |                                                                                                  |                  |       |                   |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                    |                                  | Electric motor                              |                                                                                                  |                  |       |                   |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |                   |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                              | Unit                             |                                             | Item                                                                                             | Symbol           | Value | Unit              |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 11.8                                                                                                                               | kW                               |                                             | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 279   | %                 |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                    |                                  |                                             | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |                   |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 11.77                                                                                                                              | kW                               |                                             | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 3.87  | -                 |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 9.21                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 5.50  | -                 |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 5.74                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 8.66  | -                 |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 3.33                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 10.07 | -                 |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |                   |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                | -                                |                                             |                                                                                                  |                  |       |                   |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |                   |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.020                                                                                                                              | kW                               |                                             | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW                |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                              | kW                               |                                             | Standby mode                                                                                     | P <sub>SB</sub>  | 0.020 | kW                |
| Other items                                                                                                                                                |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |                   |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                    |                                  |                                             | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4060  | m <sup>3</sup> /h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/64                                                                                                                               | dB                               |                                             |                                                                                                  |                  |       |                   |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                  | mg/kWh input GCV                 |                                             | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m <sup>3</sup> /h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                | kg CO <sub>2</sub> eq (100years) |                                             |                                                                                                  |                  |       |                   |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                     |                                  |                                             |                                                                                                  |                  |       |                   |
| Contact details                                                                                                                                            |                      | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |                                  |                                             |                                                                                                  |                  |       |                   |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |                   |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                    |                                  | OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                    |                                  | Air to water                                |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                    |                                  | Water                                       |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                    |                                  | Compressor driven vapour compression        |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                    |                                  | Electric motor                              |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                              | Unit                             |                                             | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 12.2                                                                                                                               | kW                               |                                             | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 190   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                    |                                  |                                             | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 12.19                                                                                                                              | kW                               |                                             | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 2.46  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 9.41                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 3.85  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 6.16                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 5.80  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 2.63                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 6.74  | -    |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                | -                                |                                             |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.020                                                                                                                              | kW                               |                                             | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                              | kW                               |                                             | Standby mode                                                                                     | P <sub>SB</sub>  | 0.020 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                    |                                  |                                             | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4060  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/65                                                                                                                               | dB                               |                                             |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                  | mg/kWh input GCV                 |                                             | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                | kg CO <sub>2</sub> eq (100years) |                                             |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                        |                                  |                                             |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |                                  |                                             |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                  |                                  |                                             |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                  |                                  | OMNIA M 3.2 Mod. 14-T / 14-T HI3 / 14-T HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                  |                                  | Air to water                                |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                  |                                  | Water                                       |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                  |                                  | Compressor driven vapour compression        |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                  |                                  | Electric motor                              |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                  |                                  |                                             |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                            | Unit                             |                                             | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 13.3                                                                                                                             | kW                               |                                             | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 271   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                  |                                  |                                             | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 13.30                                                                                                                            | kW                               |                                             | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 3.47  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 10.20                                                                                                                            | kW                               |                                             | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 5.26  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 6.57                                                                                                                             | kW                               |                                             | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 8.45  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 3.33                                                                                                                             | kW                               |                                             | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 10.07 | -    |
|                                                                                                                                                            |                      |                                                                                                                                  |                                  |                                             |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                              | -                                |                                             |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                  |                                  |                                             |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.020                                                                                                                            | kW                               |                                             | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                            | kW                               |                                             | Standby mode                                                                                     | P <sub>SB</sub>  | 0.020 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                  |                                  |                                             |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                  |                                  |                                             | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4060  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/64                                                                                                                             | dB                               |                                             |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                | mg/kWh input GCV                 |                                             | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                              | kg CO <sub>2</sub> eq (100years) |                                             |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                   |                                  |                                             |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrol spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrol.com |                                  |                                             |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                  |                                  |                                             |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 - Modo raffreddamento - Clima Medio - Bassa temperatura (7°C) / Cooling mode - Average climate - Low temperature (7°C)

|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                    |                                  | OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                    |                                  | Air to water                                |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                    |                                  | Water                                       |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                    |                                  | Compressor driven vapour compression        |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                    |                                  | Electric motor                              |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                              | Unit                             |                                             | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 14.3                                                                                                                               | kW                               |                                             | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 184   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                    |                                  |                                             | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 14.31                                                                                                                              | kW                               |                                             | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 2.47  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 10.68                                                                                                                              | kW                               |                                             | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 3.63  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 6.76                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 5.27  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 3.41                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 7.29  | -    |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                | -                                |                                             |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.020                                                                                                                              | kW                               |                                             | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                              | kW                               |                                             | Standby mode                                                                                     | P <sub>SB</sub>  | 0.020 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                    |                                  |                                             | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4650  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/69                                                                                                                               | dB                               |                                             |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                  | mg/kWh input GCV                 |                                             | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                | kg CO <sub>2</sub> eq (100years) |                                             |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Low temperature application                                                                                                        |                                  |                                             |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferrolì spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferrolì.com |                                  |                                             |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |

**FOGLIO DATI TECNICI ERP PER RAFFREDDAMENTO AMBIENTE ERP TECHNICAL DATA SHEET FOR SPACE COOLING**

OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 - Modo raffreddamento - Clima Medio - Media temperature (18°C) / Cooling mode - Average climate - Medium temperature (18°C)

|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):                                                                                                                                                  |                      |                                                                                                                                    |                                  | OMNIA M 3.2 Mod. 16-T / 16-T HI3 / 16-T HI9 |                                                                                                  |                  |       |      |
| Outdoor side heat exchanger of chiller:                                                                                                                    |                      |                                                                                                                                    |                                  | Air to water                                |                                                                                                  |                  |       |      |
| Indoor side heat exchanger chiller:                                                                                                                        |                      |                                                                                                                                    |                                  | Water                                       |                                                                                                  |                  |       |      |
| Type:                                                                                                                                                      |                      |                                                                                                                                    |                                  | Compressor driven vapour compression        |                                                                                                  |                  |       |      |
| Driver of compressor:                                                                                                                                      |                      |                                                                                                                                    |                                  | Electric motor                              |                                                                                                  |                  |       |      |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Item                                                                                                                                                       | Symbol               | Value                                                                                                                              | Unit                             |                                             | Item                                                                                             | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                     | P <sub>rated,c</sub> | 15.4                                                                                                                               | kW                               |                                             | Seasonal space cooling energy efficiency                                                         | η <sub>s,c</sub> | 265   | %    |
| Declared cooling capacity for part load at given outdoor temperature T <sub>j</sub>                                                                        |                      |                                                                                                                                    |                                  |                                             | Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>       |                  |       |      |
| T <sub>j</sub> =+35°C                                                                                                                                      | P <sub>dc</sub>      | 15.40                                                                                                                              | kW                               |                                             | T <sub>j</sub> =+35°C                                                                            | EER <sub>d</sub> | 3.50  | -    |
| T <sub>j</sub> =+30°C                                                                                                                                      | P <sub>dc</sub>      | 11.42                                                                                                                              | kW                               |                                             | T <sub>j</sub> =+30°C                                                                            | EER <sub>d</sub> | 5.14  | -    |
| T <sub>j</sub> =+25°C                                                                                                                                      | P <sub>dc</sub>      | 7.27                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+25°C                                                                            | EER <sub>d</sub> | 7.83  | -    |
| T <sub>j</sub> =+20°C                                                                                                                                      | P <sub>dc</sub>      | 3.40                                                                                                                               | kW                               |                                             | T <sub>j</sub> =+20°C                                                                            | EER <sub>d</sub> | 10.35 | -    |
|                                                                                                                                                            |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Degradation co-efficient for chillers (*)                                                                                                                  | C <sub>dc</sub>      | 0.9                                                                                                                                | -                                |                                             |                                                                                                  |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                        |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Off mode                                                                                                                                                   | P <sub>OFF</sub>     | 0.020                                                                                                                              | kW                               |                                             | Crankcase heater mode                                                                            | P <sub>CK</sub>  | 0.000 | kW   |
| Thermosat-off mode                                                                                                                                         | P <sub>TO</sub>      | 0.010                                                                                                                              | kW                               |                                             | Standby mode                                                                                     | P <sub>SB</sub>  | 0.020 | kW   |
| Other items                                                                                                                                                |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |
| Capacity control                                                                                                                                           | variable             |                                                                                                                                    |                                  |                                             | For air-to-water comfort chillers: air flow rate, outdoor measured                               | -                | 4650  | m³/h |
| Sound power level, indoors / outdoors                                                                                                                      | L <sub>WA</sub>      | -/69                                                                                                                               | dB                               |                                             |                                                                                                  |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                               | NO <sub>x</sub> (**) | -                                                                                                                                  | mg/kWh input GCV                 |                                             | For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger | -                | -     | m³/h |
| GWP of the refrigerant                                                                                                                                     | -                    | 675                                                                                                                                | kg CO <sub>2</sub> eq (100years) |                                             |                                                                                                  |                  |       |      |
| Standard rating conditions used                                                                                                                            |                      | Medium temperature application                                                                                                     |                                  |                                             |                                                                                                  |                  |       |      |
| Contact details                                                                                                                                            |                      | Ferroli spa - 37047 San Bonifacio (Verona) Italy - Via Ritonda 78/A - tel. +39.045.6139411 - fax +39.045.6100933 - www.ferroli.com |                                  |                                             |                                                                                                  |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.<br>(**) From 26 September 2018. |                      |                                                                                                                                    |                                  |                                             |                                                                                                  |                  |       |      |



# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

OMNIA M 3.2 Mod. 6 - Prestazioni riscaldamento / Heating capacity

| Tw_out<br>°C | DB/WB<br>°C | Heating Capacity [W] |      |      |      |      |      | COP   |       |       |       |      |      |
|--------------|-------------|----------------------|------|------|------|------|------|-------|-------|-------|-------|------|------|
|              |             | 130%                 | 100% | 90%  | 70%  | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%  | 30%  |
| 25           | -25         | 2566                 | 2374 | 1957 | 1540 | /    | /    | 1.72  | 1.76  | 1.77  | 1.78  | /    | /    |
|              | -20         | 3642                 | 3332 | 2686 | 2039 | /    | /    | 2.34  | 2.43  | 2.45  | 2.47  | /    | /    |
|              | -15         | 4430                 | 4010 | 3677 | 3343 | 2069 | /    | 2.97  | 3.11  | 3.28  | 3.46  | 3.18 | /    |
|              | -10         | 5753                 | 5149 | 4433 | 3717 | 3000 | 2284 | 3.41  | 3.61  | 3.64  | 3.66  | 3.69 | 3.71 |
|              | -7          | 6553                 | 6239 | 5073 | 3906 | 2740 | 1573 | 3.71  | 3.86  | 3.90  | 3.95  | 3.99 | 4.03 |
|              | -5          | 6536                 | 5939 | 4899 | 3859 | 2818 | 1778 | 3.98  | 4.17  | 4.21  | 4.25  | 4.28 | 4.32 |
|              | -2          | 6515                 | 5963 | 4912 | 3861 | 2810 | 1759 | 4.41  | 4.57  | 4.61  | 4.66  | 4.70 | 4.74 |
|              | 0           | 6494                 | 5987 | 4925 | 3864 | 2802 | 1740 | 4.85  | 4.98  | 5.02  | 5.07  | 5.11 | 5.15 |
|              | 2           | 6678                 | 6148 | 5113 | 4078 | 3043 | 2008 | 4.96  | 5.11  | 5.17  | 5.23  | 5.29 | 5.35 |
|              | 5           | 7038                 | 6432 | 5401 | 4370 | 3339 | 2308 | 5.37  | 5.56  | 5.62  | 5.67  | 5.73 | 5.78 |
|              | 7           | 7581                 | 6753 | 5743 | 4734 | 3724 | 2714 | 5.87  | 6.18  | 6.25  | 6.31  | 6.38 | 6.44 |
|              | 10          | 7428                 | 6677 | 5576 | 4475 | 3374 | 2273 | 6.12  | 6.52  | 6.60  | 6.68  | 6.75 | 6.83 |
|              | 12          | 7326                 | 6614 | 5583 | 4551 | 3520 | 2489 | 6.21  | 6.68  | 6.77  | 6.86  | 6.94 | 7.02 |
|              | 15          | 7174                 | 6520 | 5593 | 4666 | 3739 | 2812 | 6.35  | 6.93  | 7.03  | 7.12  | 7.22 | 7.31 |
|              | 20          | 6934                 | 6336 | 5768 | 5201 | 3120 | /    | 7.15  | 7.85  | 8.37  | 8.88  | 8.30 | /    |
| 30           | 25          | 6693                 | 5966 | 4824 | 3681 | /    | /    | 8.32  | 9.21  | 9.47  | 9.73  | /    | /    |
|              | 30          | 6741                 | 6042 | 4959 | 3876 | /    | /    | 9.53  | 10.62 | 10.93 | 11.23 | /    | /    |
|              | 35          | 6789                 | 6139 | 5344 | 4549 | /    | /    | 10.34 | 11.60 | 11.94 | 12.27 | /    | /    |
|              | 40          | 7256                 | 6656 | 5795 | 4934 | /    | /    | 11.42 | 12.89 | 13.27 | 13.64 | /    | /    |
|              | 43          | 7536                 | 6973 | 6087 | 5200 | /    | /    | 12.01 | 13.65 | 14.05 | 14.44 | /    | /    |
|              | -25         | 2245                 | 2065 | 1730 | 1300 | /    | /    | 1.46  | 1.51  | 1.52  | 1.53  | /    | /    |
|              | -20         | 3339                 | 3038 | 2850 | 2663 | 1803 | /    | 1.80  | 1.85  | 1.95  | 2.05  | 1.88 | /    |
|              | -15         | 4190                 | 3771 | 3481 | 3192 | 2032 | /    | 2.73  | 2.83  | 2.99  | 3.15  | 2.90 | /    |
|              | -10         | 5496                 | 4891 | 4204 | 3517 | 2830 | 2143 | 2.99  | 3.12  | 3.14  | 3.17  | 3.19 | 3.21 |
|              | -7          | 6296                 | 6053 | 4902 | 3751 | 2599 | 1448 | 3.28  | 3.36  | 3.40  | 3.43  | 3.47 | 3.50 |
|              | -5          | 6317                 | 5890 | 4831 | 3773 | 2714 | 1655 | 3.52  | 3.63  | 3.66  | 3.70  | 3.73 | 3.76 |
|              | -2          | 6344                 | 5877 | 4843 | 3808 | 2774 | 1739 | 3.92  | 4.02  | 4.06  | 4.10  | 4.13 | 4.17 |
|              | 0           | 6371                 | 5864 | 4854 | 3843 | 2833 | 1822 | 4.31  | 4.40  | 4.45  | 4.49  | 4.54 | 4.58 |
|              | 2           | 6477                 | 5874 | 4920 | 3965 | 3011 | 2056 | 4.38  | 4.50  | 4.55  | 4.60  | 4.64 | 4.69 |
|              | 5           | 6813                 | 6062 | 5127 | 4193 | 3258 | 2323 | 4.51  | 4.64  | 4.69  | 4.73  | 4.78 | 4.82 |
| 35           | 7           | 7455                 | 6271 | 5367 | 4462 | 3558 | 2653 | 4.81  | 5.21  | 5.25  | 5.29  | 5.33 | 5.37 |
|              | 10          | 7268                 | 6322 | 5262 | 4202 | 3142 | 2082 | 5.24  | 5.49  | 5.56  | 5.62  | 5.69 | 5.75 |
|              | 12          | 7239                 | 6341 | 5351 | 4361 | 3371 | 2380 | 5.47  | 5.79  | 5.87  | 5.94  | 6.01 | 6.09 |
|              | 15          | 7195                 | 6370 | 5485 | 4599 | 3714 | 2828 | 5.82  | 6.24  | 6.33  | 6.42  | 6.50 | 6.59 |
|              | 20          | 6966                 | 6202 | 5745 | 5288 | 3413 | /    | 6.28  | 6.79  | 7.24  | 7.68  | 7.18 | /    |
|              | 25          | 6736                 | 6115 | 5045 | 3974 | /    | /    | 7.16  | 7.79  | 8.02  | 8.24  | /    | /    |
|              | 30          | 6832                 | 6236 | 5219 | 4201 | /    | /    | 8.02  | 8.79  | 9.05  | 9.30  | /    | /    |
|              | 35          | 6927                 | 6379 | 5545 | 4710 | /    | /    | 9.43  | 10.41 | 10.72 | 11.02 | /    | /    |
|              | 40          | 7373                 | 6673 | 5807 | 4940 | /    | /    | 10.15 | 11.28 | 11.61 | 11.94 | /    | /    |
|              | 43          | 7641                 | 6976 | 6086 | 5196 | /    | /    | 10.94 | 12.24 | 12.60 | 12.96 | /    | /    |
|              | -25         | 2139                 | 1951 | 1714 | 1476 | /    | /    | 1.28  | 1.30  | 1.31  | 1.32  | /    | /    |
|              | -20         | 2884                 | 2602 | 2138 | 1673 | /    | /    | 1.42  | 1.46  | 1.48  | 1.49  | /    | /    |
|              | -15         | 4001                 | 3569 | 3290 | 3010 | 1904 | /    | 2.34  | 2.43  | 2.57  | 2.71  | 2.49 | /    |
|              | -10         | 5111                 | 4508 | 3886 | 3264 | 2641 | 2019 | 2.57  | 2.66  | 2.68  | 2.70  | 2.72 | 2.74 |
|              | -7          | 6211                 | 6000 | 4870 | 3739 | 2609 | 1478 | 2.86  | 3.00  | 3.02  | 3.03  | 3.05 | 3.06 |
| 40           | -5          | 6247                 | 5716 | 4713 | 3710 | 2706 | 1703 | 3.09  | 3.19  | 3.22  | 3.25  | 3.27 | 3.30 |
|              | -2          | 6300                 | 5726 | 4729 | 3732 | 2735 | 1738 | 3.44  | 3.54  | 3.57  | 3.60  | 3.63 | 3.66 |
|              | 0           | 6353                 | 5737 | 4746 | 3755 | 2763 | 1772 | 3.79  | 3.89  | 3.92  | 3.96  | 3.99 | 4.02 |
|              | 2           | 6531                 | 5500 | 4634 | 3768 | 2902 | 2036 | 3.86  | 3.90  | 3.98  | 4.06  | 4.14 | 4.22 |
|              | 5           | 6881                 | 6158 | 5202 | 4246 | 3289 | 2333 | 4.25  | 4.42  | 4.46  | 4.51  | 4.55 | 4.59 |
|              | 7 *         | 7409                 | 6350 | 5446 | 4542 | 3638 | 2734 | 4.76  | 4.95  | 5.04  | 5.14  | 5.23 | 5.32 |
|              | 10          | 7387                 | 6406 | 5447 | 4488 | 3529 | 2570 | 4.86  | 5.04  | 5.12  | 5.20  | 5.28 | 5.36 |
|              | 12          | 7354                 | 6491 | 5449 | 4408 | 3366 | 2324 | 5.02  | 5.17  | 5.23  | 5.30  | 5.36 | 5.42 |
|              | 15          | 7261                 | 6482 | 5571 | 4661 | 3750 | 2839 | 5.28  | 5.57  | 5.65  | 5.73  | 5.81 | 5.89 |
|              | 20          | 6982                 | 6268 | 5875 | 5482 | 3700 | /    | 5.91  | 6.28  | 6.70  | 7.11  | 6.65 | /    |
|              | 25          | 6702                 | 6134 | 5178 | 4222 | /    | /    | 6.31  | 6.75  | 6.95  | 7.15  | /    | /    |
|              | 30          | 6831                 | 6286 | 5380 | 4474 | /    | /    | 7.27  | 7.84  | 8.07  | 8.30  | /    | /    |
|              | 35          | 6959                 | 6460 | 5513 | 4565 | /    | /    | 8.17  | 8.87  | 9.14  | 9.40  | /    | /    |
|              | 40          | 7285                 | 6565 | 5869 | 5172 | /    | /    | 9.02  | 9.86  | 10.16 | 10.45 | /    | /    |
|              | 43          | 7480                 | 6801 | 6094 | 5386 | /    | /    | 9.87  | 10.86 | 11.19 | 11.51 | /    | /    |
| 45           | -25         | 1914                 | 1772 | 1566 | 1359 | /    | /    | 1.17  | 1.17  | 1.18  | 1.19  | /    | /    |
|              | -20         | 2556                 | 2342 | 1989 | 1636 | /    | /    | 1.23  | 1.25  | 1.27  | 1.28  | /    | /    |
|              | -15         | 3608                 | 3269 | 2645 | 2021 | /    | /    | 1.93  | 1.98  | 2.01  | 2.03  | /    | /    |
|              | -10         | 4833                 | 4330 | 4047 | 3764 | 2513 | /    | 2.22  | 2.27  | 2.40  | 2.54  | 2.34 | /    |
|              | -7          | 5789                 | 5606 | 4827 | 4048 | 3269 | 2490 | 2.50  | 2.54  | 2.59  | 2.63  | 2.68 | 2.72 |
|              | -5          | 5965                 | 5652 | 5092 | 4533 | 2589 | /    | 2.74  | 2.87  | 3.04  | 3.22  | 2.98 | /    |
|              | -2          | 6230                 | 5794 | 5249 | 4704 | 2759 | /    | 3.00  | 3.14  | 3.32  | 3.50  | 3.22 | /    |
|              | 0           | 6495                 | 5936 | 5406 | 4876 | 2929 | /    | 3.26  | 3.40  | 3.59  | 3.78  | 3.47 | /    |
|              | 2           | 6645                 | 5951 | 5449 | 4947 | 3044 | /    | 3.52  | 3.61  | 3.84  | 4.06  | 3.78 | /    |
|              | 5           | 6962                 | 6363 | 5814 | 5265 | 3209 | /    | 3.69  | 3.78  | 4.01  | 4.24  | 3.93 | /    |
|              | 7           | 7128                 | 6444 | 5917 | 5391 | 3357 | /    | 3.99  | 4.14  | 4.40  | 4.65  | 4.32 | /    |
|              | 10          | 7371                 | 6587 | 6017 | 5447 | 3317 | /    | 4.21  | 4.39  | 4.67  | 4.94  | 4.60 | /    |
|              | 12          | 7453                 | 6763 | 6185 | 5606 | 3431 | /    | 4.37  | 4.60  | 4.90  | 5.19  | 4.84 | /    |
|              | 15          | 7577                 | 7027 | 6436 | 5845 | 3601 | /    | 4.61  | 4.92  | 5.24  | 5.57  | 5.20 | /    |
|              | 20          | 7212                 | 6552 | 5548 | 4543 | /    | /    | 4.70  | 5.05  | 5.20  | 5.34  | /    | /    |
|              | 25          | 6646                 | 6155 | 5504 | 4852 | /    | /    | 5.11  | 5.53  | 5.69  | 5.85  | /    | /    |
| 50           | 30          | 6556                 | 6104 | 5298 | 4491 | /    | /    | 6.01  | 6.55  | 6.75  | 6.94  | /    | /    |
|              | 35          | 6465                 | 6071 | 5266 | 4461 | /    | /    | 6.87  | 7.54  | 7.77  | 7.99  | /    | /    |
|              | 40          | 7118                 | 6492 | 5809 | 5125 | /    | /    | 7.34  | 8.11  | 8.35  | 8.59  | /    | /    |
|              | 43          | 7509                 | 6909 | 6196 | 5482 | /    | /    | 8.27  | 9.20  | 9.48  | 9.75  | /    | /    |
|              | -25         | 1714                 | 1606 | 1343 | 1080 | /    | /    | 1.09  | 1.08  | 1.09  | 1.09  | /    | /    |
|              | -20         | 2332                 | 2162 | 1804 | 1446 | /    | /    | 1.12  | 1.13  | 1.14  | 1.14  | /    | /    |
|              | -15         | 3081                 | 2733 | 2353 | 1972 | /    | /    | 1.53  | 1.56  | 1.57  | 1.58  | /    | /    |
|              | -10         | 4643                 | 4211 | 3513 | 2814 | /    | /    | 2.07  | 2.10  | 2.12  | 2.14  | /    | /    |
|              | -7          | 5573                 | 5400 | 4920 | 4440 | 2673 | /    | 2.35  | 2.40  | 2.54  | 2.68  | 2.48 | /    |
|              | -5          | 5844                 | 5496 | 5036 | 4575 | 2823 | /    | 2.54  | 2.61  | 2.74  | 2.87  | 2.61 | /    |
|              | -2          | 6096                 | 5586 | 5132 | 4679 | 2921 | /    | 2.68  | 2.78  | 2.93  | 3.07  | 2.81 | /    |
|              | 0           | 6348                 | 5675 | 5229 | 4782 | 3020 | /    | 2.82  | 2.94  | 3.11  | 3.27  | 3.01 | /    |
|              | 2           | 6581                 | 5800 | 5356 | 4912 | 3131 | /    | 2.95  | 3.00  | 3.24  | 3.48  | 3.32 | /    |
|              | 5           | 6991                 | 6131 | 5657 | 5183 | 3293 | /    | 3.29  | 3.45  | 3.65  | 3.84  | 3.54 | /    |
|              | 7           | 7134                 | 6300 | 5076 | 3852 | 3546 | /    | 3.58  | 3.70  | 3.79  | 3.88  | 3.92 | /    |
| 55           | 10          | 7318                 | 6624 | 6222 | 5821 | 3959 | /    | 3.78  | 3.83  | 4.07  | 4.30  | 3.99 | /    |
|              | 12          | 7361                 | 6766 | 5974 | 5182 | /    | /    | 3.93  | 4.03  | 4.21  | 4.39  | /    | /    |
|              | 15          | 7425                 | 6978 | 5601 | 4224 | /    | /    | 4.16  | 4.32  | 4.43  | 4.53  | /    | /    |
|              | 20          | 7416                 | 6824 | 5711 | 4598 | /    | /    | 4.42  | 4.62  | 4.74  | 4.86  | /    | /    |
|              | 25          | 7207                 | 6758 | 5974 | 5189 | /    | /    | 4.74  | 4.99  | 5.12  | 5.24  | /    | /    |
|              | 30          | 7049                 | 6645 | 5913 | 5181 | /    | /    | 5.05  | 5.35  | 5.49  | 5.63  | /    | /    |
|              | 35          | 6891                 | 6551 | 5825 | 5099 | /    | /    | 5.42  | 5.79  | 5.94  | 6.09  | /    | /    |
|              | 40          | 7337                 | 6777 | 6177 | 5576 | /    | /    | 6.12  | 6.59  | 6.76  | 6.92  | /    | /    |
|              | 43          | 7605                 | 7085 | 6509 | 5932 | /    | /    | 7     |       |       |       |      |      |

# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

OMNIA M 3.2 Mod. 8 - Prestazioni riscaldamento / Heating capacity

| Tw_out<br>°C | DB/WB<br>°C | Heating Capacity [W] |      |      |      |      |      | COP   |       |       |       |       |       |
|--------------|-------------|----------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
|              |             | 130%                 | 100% | 90%  | 70%  | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%   | 30%   |
| 25           | -25         | 4446                 | 4113 | 3391 | 2668 | /    | /    | 2.25  | 2.29  | 2.31  | 2.33  | /     | /     |
|              | -20         | 5683                 | 5200 | 4191 | 3182 | /    | /    | 2.80  | 2.90  | 2.93  | 2.96  | /     | /     |
|              | -15         | 6899                 | 6244 | 5725 | 5206 | 3222 | /    | 3.34  | 3.49  | 3.69  | 3.89  | 3.58  | /     |
|              | -10         | 7446                 | 6664 | 5737 | 4810 | 3883 | 2956 | 3.68  | 3.89  | 3.92  | 3.95  | 3.98  | 4.01  |
|              | -7          | 7637                 | 7270 | 5911 | 4552 | 3192 | 1833 | 3.76  | 3.97  | 4.00  | 4.03  | 4.06  | 4.09  |
|              | -5          | 8047                 | 7250 | 5985 | 4720 | 3454 | 2189 | 4.02  | 4.25  | 4.28  | 4.31  | 4.34  | 4.37  |
|              | -2          | 8296                 | 7425 | 6119 | 4812 | 3506 | 2199 | 4.39  | 4.57  | 4.61  | 4.64  | 4.68  | 4.71  |
|              | 0           | 8546                 | 7600 | 6252 | 4905 | 3557 | 2209 | 4.77  | 4.89  | 4.93  | 4.98  | 5.02  | 5.06  |
|              | 2           | 8661                 | 7769 | 6461 | 5153 | 3844 | 2536 | 5.20  | 5.36  | 5.43  | 5.49  | 5.56  | 5.62  |
|              | 5           | 9033                 | 8095 | 6798 | 5500 | 4203 | 2905 | 5.95  | 6.17  | 6.23  | 6.29  | 6.35  | 6.41  |
|              | 7           | 9508                 | 8595 | 7297 | 6000 | 4702 | 3404 | 6.54  | 6.84  | 6.92  | 6.99  | 7.07  | 7.14  |
|              | 10          | 10064                | 9046 | 7555 | 6063 | 4572 | 3080 | 7.44  | 7.93  | 8.02  | 8.12  | 8.21  | 8.30  |
|              | 12          | 9982                 | 9011 | 7607 | 6203 | 4799 | 3394 | 7.98  | 8.59  | 8.70  | 8.82  | 8.92  | 9.03  |
|              | 15          | 9859                 | 8959 | 7686 | 6412 | 5139 | 3865 | 8.79  | 9.59  | 9.72  | 9.86  | 9.99  | 10.12 |
|              | 20          | 9653                 | 8821 | 8031 | 7241 | 4344 | /    | 10.14 | 11.14 | 11.87 | 12.60 | 11.77 | /     |
|              | 25          | 9417                 | 8393 | 6786 | 5179 | /    | /    | 10.44 | 11.55 | 11.88 | 12.21 | /     | /     |
|              | 30          | 9181                 | 8229 | 6754 | 5279 | /    | /    | 11.03 | 12.29 | 12.64 | 12.99 | /     | /     |
|              | 35          | 9548                 | 8635 | 7516 | 6397 | /    | /    | 11.31 | 12.68 | 13.05 | 13.42 | /     | /     |
|              | 40          | 10026                | 9197 | 8007 | 6817 | /    | /    | 11.57 | 13.06 | 13.44 | 13.82 | /     | /     |
|              | 43          | 10326                | 9555 | 8340 | 7125 | /    | /    | 12.25 | 13.92 | 14.33 | 14.73 | /     | /     |
| 30           | -25         | 3999                 | 3679 | 3082 | 2484 | /    | /    | 1.96  | 2.03  | 2.05  | 2.06  | /     | /     |
|              | -20         | 5087                 | 4629 | 4343 | 4057 | 2747 | /    | 2.37  | 2.43  | 2.57  | 2.70  | 2.48  | /     |
|              | -15         | 6443                 | 5799 | 5354 | 4908 | 3125 | /    | 2.87  | 2.98  | 3.15  | 3.32  | 3.05  | /     |
|              | -10         | 7280                 | 6479 | 5569 | 4659 | 3749 | 2839 | 3.33  | 3.49  | 3.52  | 3.54  | 3.57  | 3.59  |
|              | -7          | 7467                 | 7109 | 5761 | 4413 | 3065 | 1717 | 3.40  | 3.53  | 3.56  | 3.58  | 3.61  | 3.63  |
|              | -5          | 7966                 | 7205 | 5926 | 4646 | 3367 | 2087 | 3.69  | 3.81  | 3.84  | 3.88  | 3.91  | 3.94  |
|              | -2          | 8229                 | 7495 | 6188 | 4880 | 3573 | 2265 | 3.96  | 4.07  | 4.11  | 4.14  | 4.18  | 4.21  |
|              | 0           | 8493                 | 7785 | 6450 | 5115 | 3779 | 2444 | 4.23  | 4.34  | 4.38  | 4.42  | 4.45  | 4.49  |
|              | 2           | 8649                 | 7855 | 6578 | 5302 | 4025 | 2748 | 4.50  | 4.64  | 4.70  | 4.75  | 4.81  | 4.86  |
|              | 5           | 8952                 | 8083 | 6837 | 5590 | 4344 | 3097 | 4.94  | 5.13  | 5.18  | 5.23  | 5.27  | 5.32  |
|              | 7           | 9199                 | 8215 | 7026 | 5837 | 4648 | 3459 | 5.32  | 5.57  | 5.63  | 5.69  | 5.75  | 5.81  |
|              | 10          | 9278                 | 8122 | 6771 | 5420 | 4069 | 2718 | 5.84  | 6.12  | 6.19  | 6.27  | 6.34  | 6.41  |
|              | 12          | 9324                 | 8200 | 6927 | 5654 | 4380 | 3107 | 6.34  | 6.71  | 6.80  | 6.89  | 6.97  | 7.06  |
|              | 15          | 9393                 | 8316 | 7160 | 6004 | 4847 | 3691 | 7.09  | 7.60  | 7.71  | 7.82  | 7.92  | 8.03  |
|              | 20          | 9507                 | 8465 | 7841 | 7218 | 4658 | /    | 8.33  | 9.00  | 9.59  | 10.19 | 9.52  | /     |
|              | 25          | 8998                 | 8169 | 6739 | 5309 | /    | /    | 8.75  | 9.52  | 9.80  | 10.07 | /     | /     |
|              | 30          | 8489                 | 7749 | 6485 | 5221 | /    | /    | 9.16  | 10.04 | 10.34 | 10.63 | /     | /     |
|              | 35          | 8829                 | 8130 | 7067 | 6003 | /    | /    | 9.45  | 10.43 | 10.74 | 11.04 | /     | /     |
|              | 40          | 9270                 | 8389 | 7300 | 6211 | /    | /    | 10.02 | 11.13 | 11.46 | 11.79 | /     | /     |
|              | 43          | 9548                 | 8717 | 7605 | 6493 | /    | /    | 11.27 | 12.61 | 12.98 | 13.35 | /     | /     |
| 35           | -25         | 3590                 | 3274 | 2876 | 2477 | /    | /    | 1.64  | 1.67  | 1.68  | 1.69  | /     | /     |
|              | -20         | 4735                 | 4271 | 3509 | 2746 | /    | /    | 2.11  | 2.17  | 2.20  | 2.22  | /     | /     |
|              | -15         | 6105                 | 5446 | 5020 | 4594 | 2906 | /    | 2.43  | 2.53  | 2.67  | 2.82  | 2.59  | /     |
|              | -10         | 7084                 | 6248 | 5386 | 4523 | 3661 | 2798 | 3.15  | 3.26  | 3.28  | 3.31  | 3.33  | 3.35  |
|              | -7          | 7266                 | 7000 | 5704 | 4409 | 3113 | 1817 | 3.21  | 3.20  | 3.26  | 3.32  | 3.38  | 3.44  |
|              | -5          | 7685                 | 6994 | 5787 | 4581 | 3374 | 2167 | 3.22  | 3.30  | 3.34  | 3.37  | 3.41  | 3.44  |
|              | -2          | 8053                 | 7332 | 6066 | 4800 | 3534 | 2268 | 3.49  | 3.59  | 3.63  | 3.66  | 3.70  | 3.73  |
|              | 0           | 8420                 | 7669 | 6344 | 5020 | 3695 | 2370 | 3.77  | 3.88  | 3.91  | 3.95  | 3.98  | 4.01  |
|              | 2           | 8477                 | 7100 | 5999 | 4897 | 3796 | 2694 | 3.95  | 4.10  | 4.17  | 4.24  | 4.30  | 4.37  |
|              | 5           | 8856                 | 8084 | 6829 | 5573 | 4318 | 3062 | 4.56  | 4.73  | 4.78  | 4.82  | 4.87  | 4.91  |
|              | 7 *         | 9105                 | 8400 | 7140 | 5880 | 4620 | 3360 | 5.07  | 5.15  | 5.25  | 5.35  | 5.44  | 5.54  |
|              | 10          | 8942                 | 7893 | 6626 | 5360 | 4093 | 2826 | 5.42  | 5.58  | 5.65  | 5.72  | 5.78  | 5.85  |
|              | 12          | 8999                 | 7980 | 6764 | 5549 | 4333 | 3116 | 5.67  | 5.90  | 5.97  | 6.05  | 6.12  | 6.20  |
|              | 15          | 9085                 | 8111 | 6971 | 5832 | 4692 | 3552 | 6.04  | 6.37  | 6.46  | 6.55  | 6.64  | 6.73  |
|              | 20          | 9328                 | 8374 | 7849 | 7325 | 4944 | /    | 7.09  | 7.53  | 8.03  | 8.53  | 7.98  | /     |
|              | 25          | 8751                 | 8009 | 6761 | 5513 | /    | /    | 7.64  | 8.18  | 8.42  | 8.66  | /     | /     |
|              | 30          | 8173                 | 7521 | 6437 | 5353 | /    | /    | 7.78  | 8.39  | 8.64  | 8.88  | /     | /     |
|              | 35          | 8500                 | 7890 | 6733 | 5576 | /    | /    | 8.05  | 8.74  | 9.00  | 9.26  | /     | /     |
|              | 40          | 8925                 | 8044 | 7191 | 6337 | /    | /    | 8.49  | 9.28  | 9.56  | 9.84  | /     | /     |
|              | 43          | 9193                 | 8358 | 7489 | 6619 | /    | /    | 9.11  | 10.03 | 10.33 | 10.63 | /     | /     |
| 40           | -25         | 3344                 | 3097 | 2736 | 2374 | /    | /    | 1.55  | 1.56  | 1.57  | 1.58  | /     | /     |
|              | -20         | 4320                 | 3957 | 3361 | 2765 | /    | /    | 1.77  | 1.80  | 1.82  | 1.83  | /     | /     |
|              | -15         | 5566                 | 5043 | 4080 | 3117 | /    | /    | 2.26  | 2.32  | 2.35  | 2.37  | /     | /     |
|              | -10         | 6872                 | 6157 | 5754 | 5352 | 3573 | /    | 2.62  | 2.68  | 2.84  | 2.99  | 2.76  | /     |
|              | -7          | 7048                 | 6710 | 6057 | 5404 | 3115 | /    | 2.67  | 2.79  | 2.96  | 3.13  | 2.90  | /     |
|              | -5          | 7451                 | 6864 | 6209 | 5554 | 3234 | /    | 2.90  | 3.01  | 3.20  | 3.39  | 3.15  | /     |
|              | -2          | 7923                 | 7302 | 6601 | 5900 | 3426 | /    | 3.11  | 3.19  | 3.39  | 3.58  | 3.32  | /     |
|              | 0           | 8395                 | 7740 | 6993 | 6247 | 3618 | /    | 3.32  | 3.37  | 3.57  | 3.77  | 3.48  | /     |
|              | 2           | 8502                 | 7804 | 7094 | 6383 | 3802 | /    | 3.40  | 3.54  | 3.74  | 3.94  | 3.63  | /     |
|              | 5           | 8781                 | 8026 | 7333 | 6641 | 4048 | /    | 3.84  | 3.93  | 4.17  | 4.41  | 4.08  | /     |
|              | 7           | 8852                 | 8002 | 7348 | 6694 | 4169 | /    | 4.18  | 4.34  | 4.61  | 4.88  | 4.53  | /     |
|              | 10          | 8700                 | 7774 | 7101 | 6429 | 3915 | /    | 4.30  | 4.48  | 4.76  | 5.05  | 4.70  | /     |
|              | 12          | 8849                 | 7944 | 7264 | 6585 | 4029 | /    | 4.63  | 4.87  | 5.18  | 5.50  | 5.12  | /     |
|              | 15          | 9073                 | 8198 | 7509 | 6819 | 4201 | /    | 5.12  | 5.46  | 5.82  | 6.17  | 5.76  | /     |
|              | 20          | 9446                 | 8583 | 7267 | 5951 | /    | /    | 5.93  | 6.37  | 6.56  | 6.74  | /     | /     |
|              | 25          | 9148                 | 8472 | 7575 | 6678 | /    | /    | 6.34  | 6.86  | 7.06  | 7.26  | /     | /     |
|              | 30          | 8849                 | 8239 | 7151 | 6062 | /    | /    | 6.84  | 7.46  | 7.68  | 7.89  | /     | /     |
|              | 35          | 9203                 | 8643 | 7497 | 6350 | /    | /    | 7.05  | 7.74  | 7.97  | 8.20  | /     | /     |
|              | 40          | 9663                 | 8814 | 7886 | 6957 | /    | /    | 7.31  | 8.08  | 8.32  | 8.56  | /     | /     |
|              | 43          | 9953                 | 9158 | 8212 | 7266 | /    | /    | 7.86  | 8.74  | 9.00  | 9.26  | /     | /     |
| 45           | -25         | 2815                 | 2638 | 2206 | 1773 | /    | /    | 1.30  | 1.29  | 1.29  | 1.29  | /     | /     |
|              | -20         | 3697                 | 3427 | 2860 | 2292 | /    | /    | 1.61  | 1.62  | 1.63  | 1.64  | /     | /     |
|              | -15         | 5288                 | 4690 | 4037 | 3384 | /    | /    | 2.00  | 2.03  | 2.05  | 2.06  | /     | /     |
|              | -10         | 6770                 | 6141 | 5122 | 4103 | /    | /    | 2.47  | 2.50  | 2.53  | 2.55  | /     | /     |
|              | -7          | 6944                 | 6600 | 6053 | 5506 | 3410 | /    | 2.52  | 2.55  | 2.71  | 2.87  | 2.67  | /     |
|              | -5          | 7444                 | 6791 | 6252 | 5712 | 3595 | /    | 2.69  | 2.75  | 2.91  | 3.07  | 2.84  | /     |
|              | -2          | 7767                 | 6975 | 6391 | 5806 | 3582 | /    | 2.81  | 2.90  | 3.07  | 3.23  | 2.98  | /     |
|              | 0           | 8090                 | 7160 | 6530 | 5900 | 3568 | /    | 2.94  | 3.05  | 3.22  | 3.39  | 3.12  | /     |
|              | 2           | 8308                 | 7400 | 6780 | 6161 | 3801 | /    | 3.04  | 3.25  | 3.43  | 3.61  | 3.31  | /     |
|              | 5           | 8694                 | 7624 | 7035 | 6445 | 4095 | /    | 3.38  | 3.54  | 3.74  | 3.95  | 3.64  | /     |
|              | 7           | 8979                 | 8300 | 7611 | 7122 | 4849 | /    | 3.82  | 3.85  | 4.13  | 4.40  | 4.15  | /     |
|              | 10          | 8735                 | 7906 | 7427 | 6948 | 4726 | /    | 3.90  | 3.95  | 4.19  | 4.43  | 4.11  | /     |
|              | 12          | 8805                 | 8005 | 7074 | 6143 | /    | /    | 4.09  | 4.19  | 4.38  | 4.57  | /     | /     |
|              | 15          | 8909                 | 8153 | 6545 | 4936 | /    | /    | 4.38  | 4.55  | 4.66  | 4.77  | /     | /     |
|              | 20          | 9083                 | 8358 | 6995 | 5631 | /    | /    | 5.02  | 5.25  | 5.38  | 5.51  | /     | /     |
|              | 25          | 9007                 | 8445 | 7465 | 6485 | /    | /    | 5.80  | 6.11  | 6.27  | 6.42  | /     | /     |
|              | 30          | 8930                 | 8418 | 7491 | 6564 | /    | /    | 6.23  | 6.61  | 6.78  | 6.95  | /     | /     |
|              | 35          | 9287                 | 8829 | 7851 | 6873 | /    | /    | 6.34  | 6.77  | 6.95  | 7.12  | /     | /     |
|              | 40          | 9752                 | 9007 | 8209 | 7411 | /    | /    | 6.46  | 6.95  | 7.13  | 7.31  | /     | /     |
|              | 43          | 10044                | 9358 | 8596 | 7834 | /    | /    | 6.83  | 7.    |       |       |       |       |

# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

OMNIA M 3.2 Mod. 10 - Prestazioni riscaldamento / Heating capacity

| Tw_out<br>°C | DB/WB<br>°C | Heating Capacity [W] |       |      |      |      |      | COP   |       |       |       |       |      |
|--------------|-------------|----------------------|-------|------|------|------|------|-------|-------|-------|-------|-------|------|
|              |             | 130%                 | 100%  | 90%  | 70%  | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%   | 30%  |
| 25           | -25         | 4680                 | 4329  | 3569 | 2808 | /    | /    | 2.27  | 2.32  | 2.34  | 2.35  | /     | /    |
|              | -20         | 5982                 | 5473  | 4412 | 3350 | /    | /    | 2.82  | 2.93  | 2.96  | 2.99  | /     | /    |
|              | -15         | 7263                 | 6573  | 6027 | 5481 | 3392 | /    | 3.37  | 3.53  | 3.73  | 3.93  | 3.61  | /    |
|              | -10         | 8372                 | 7493  | 6451 | 5409 | 4366 | 3324 | 3.60  | 3.81  | 3.84  | 3.86  | 3.89  | 3.91 |
|              | -7          | 8721                 | 8285  | 6737 | 5189 | 3641 | 2093 | 3.81  | 3.92  | 3.98  | 4.03  | 4.09  | 4.14 |
|              | -5          | 8997                 | 8126  | 6693 | 5260 | 3826 | 2393 | 4.10  | 4.29  | 4.34  | 4.39  | 4.43  | 4.48 |
|              | -2          | 9215                 | 8227  | 6772 | 5317 | 3862 | 2407 | 4.50  | 4.68  | 4.73  | 4.77  | 4.82  | 4.86 |
|              | 0           | 9433                 | 8328  | 6851 | 5375 | 3898 | 2421 | 4.90  | 5.06  | 5.11  | 5.15  | 5.20  | 5.24 |
|              | 2           | 9719                 | 8621  | 7170 | 5720 | 4269 | 2818 | 5.18  | 5.34  | 5.41  | 5.47  | 5.54  | 5.60 |
|              | 5           | 10242                | 9087  | 7631 | 6174 | 4718 | 3261 | 5.72  | 5.95  | 6.01  | 6.07  | 6.12  | 6.18 |
|              | 7           | 10494                | 10220 | 8604 | 6989 | 5373 | 3757 | 5.94  | 6.05  | 6.16  | 6.27  | 6.37  | 6.48 |
|              | 10          | 11196                | 10063 | 8404 | 6745 | 5085 | 3426 | 7.04  | 7.50  | 7.59  | 7.68  | 7.77  | 7.86 |
|              | 12          | 11286                | 10189 | 8604 | 7018 | 5432 | 3846 | 7.46  | 8.03  | 8.13  | 8.24  | 8.34  | 8.44 |
|              | 15          | 11420                | 10379 | 8904 | 7428 | 5953 | 4477 | 8.10  | 8.83  | 8.95  | 9.08  | 9.20  | 9.32 |
|              | 20          | 10808                | 9876  | 8992 | 8107 | 4864 | /    | 9.05  | 9.94  | 10.59 | 11.25 | 10.51 | /    |
|              | 25          | 9943                 | 8863  | 7166 | 5469 | /    | /    | 9.59  | 10.61 | 10.92 | 11.22 | /     | /    |
|              | 30          | 9774                 | 8761  | 7191 | 5620 | /    | /    | 10.15 | 11.31 | 11.64 | 11.96 | /     | /    |
|              | 35          | 10165                | 9192  | 8002 | 6811 | /    | /    | 10.73 | 12.03 | 12.38 | 12.73 | /     | /    |
|              | 40          | 10673                | 9791  | 8525 | 7258 | /    | /    | 11.52 | 13.01 | 13.39 | 13.76 | /     | /    |
|              | 43          | 10993                | 10172 | 8879 | 7585 | /    | /    | 12.03 | 13.67 | 14.07 | 14.47 | /     | /    |
| 30           | -25         | 4210                 | 3873  | 3244 | 2614 | /    | /    | 1.98  | 2.05  | 2.07  | 2.08  | /     | /    |
|              | -20         | 5354                 | 4873  | 4572 | 4270 | 2891 | /    | 2.39  | 2.46  | 2.59  | 2.73  | 2.50  | /    |
|              | -15         | 6782                 | 6104  | 5635 | 5166 | 3289 | /    | 2.90  | 3.01  | 3.18  | 3.35  | 3.08  | /    |
|              | -10         | 8144                 | 7248  | 6230 | 5212 | 4194 | 3176 | 3.22  | 3.37  | 3.40  | 3.42  | 3.45  | 3.47 |
|              | -7          | 8483                 | 8182  | 6624 | 5067 | 3509 | 1951 | 3.41  | 3.51  | 3.54  | 3.58  | 3.61  | 3.64 |
|              | -5          | 8862                 | 8205  | 6734 | 5264 | 3793 | 2322 | 3.60  | 3.70  | 3.74  | 3.77  | 3.81  | 3.84 |
|              | -2          | 9109                 | 8230  | 6797 | 5365 | 3932 | 2499 | 3.82  | 3.93  | 3.97  | 4.00  | 4.04  | 4.07 |
|              | 0           | 9357                 | 8254  | 6860 | 5465 | 4071 | 2676 | 4.05  | 4.15  | 4.19  | 4.23  | 4.26  | 4.30 |
|              | 2           | 9568                 | 8677  | 7268 | 5858 | 4449 | 3039 | 4.34  | 4.52  | 4.56  | 4.61  | 4.65  | 4.69 |
|              | 5           | 10072                | 9005  | 7616 | 6228 | 4839 | 3450 | 4.80  | 4.99  | 5.04  | 5.09  | 5.13  | 5.18 |
|              | 7           | 10275                | 9983  | 8453 | 6923 | 5393 | 3863 | 5.21  | 5.40  | 5.47  | 5.55  | 5.62  | 5.69 |
|              | 10          | 10414                | 9116  | 7600 | 6084 | 4567 | 3051 | 5.64  | 5.91  | 5.98  | 6.05  | 6.12  | 6.19 |
|              | 12          | 10497                | 9232  | 7799 | 6366 | 4933 | 3501 | 5.98  | 6.33  | 6.41  | 6.49  | 6.57  | 6.65 |
|              | 15          | 10622                | 9405  | 8098 | 6790 | 5483 | 4175 | 6.49  | 6.96  | 7.06  | 7.16  | 7.25  | 7.35 |
|              | 20          | 10756                | 9577  | 8871 | 8166 | 5270 | /    | 7.96  | 8.60  | 9.17  | 9.74  | 9.10  | /    |
|              | 25          | 9896                 | 8984  | 7411 | 5838 | /    | /    | 8.44  | 9.18  | 9.45  | 9.72  | /     | /    |
|              | 30          | 9073                 | 8282  | 6931 | 5580 | /    | /    | 8.79  | 9.63  | 9.92  | 10.20 | /     | /    |
|              | 35          | 9436                 | 8689  | 7553 | 6416 | /    | /    | 9.15  | 10.10 | 10.40 | 10.69 | /     | /    |
|              | 40          | 9908                 | 8966  | 7802 | 6638 | /    | /    | 9.81  | 10.90 | 11.22 | 11.54 | /     | /    |
|              | 43          | 10205                | 9317  | 8128 | 6939 | /    | /    | 10.61 | 11.87 | 12.22 | 12.57 | /     | /    |
| 35           | -25         | 3778                 | 3446  | 3027 | 2607 | /    | /    | 1.66  | 1.68  | 1.70  | 1.71  | /     | /    |
|              | -20         | 4985                 | 4496  | 3694 | 2891 | /    | /    | 2.13  | 2.20  | 2.22  | 2.24  | /     | /    |
|              | -15         | 6427                 | 5733  | 5284 | 4836 | 3059 | /    | 2.46  | 2.56  | 2.70  | 2.85  | 2.62  | /    |
|              | -10         | 7885                 | 6955  | 5995 | 5035 | 4075 | 3115 | 2.98  | 3.08  | 3.10  | 3.13  | 3.15  | 3.17 |
|              | -7          | 8314                 | 8     | 2054 | /    | /    | /    | 3.11  | 3.05  | 3.37  | /     | /     | /    |
|              | -5          | 8799                 | 8164  | 6743 | 5323 | 3902 | 2481 | 3.33  | 3.41  | 3.45  | 3.49  | 3.53  | 3.57 |
|              | -2          | 9131                 | 8249  | 6831 | 5412 | 3994 | 2575 | 3.54  | 3.64  | 3.68  | 3.71  | 3.75  | 3.78 |
|              | 0           | 9463                 | 8335  | 6918 | 5502 | 4085 | 2668 | 3.76  | 3.86  | 3.89  | 3.93  | 3.96  | 3.99 |
|              | 2           | 9719                 | 8200  | 6907 | 5614 | 4320 | 3027 | 3.97  | 4.00  | 4.09  | 4.17  | 4.26  | 4.34 |
|              | 5           | 10132                | 9068  | 7660 | 6252 | 4843 | 3435 | 4.51  | 4.68  | 4.73  | 4.77  | 4.82  | 4.86 |
|              | 7 *         | 10322                | 10000 | 8452 | 6905 | 5357 | 3809 | 4.93  | 4.95  | 5.06  | 5.17  | 5.28  | 5.39 |
|              | 10          | 10031                | 8855  | 7434 | 6013 | 4591 | 3170 | 5.13  | 5.28  | 5.35  | 5.41  | 5.48  | 5.54 |
|              | 12          | 10111                | 8967  | 7601 | 6235 | 4868 | 3502 | 5.44  | 5.66  | 5.73  | 5.81  | 5.88  | 5.96 |
|              | 15          | 10232                | 9134  | 7851 | 6568 | 5284 | 4001 | 5.90  | 6.22  | 6.31  | 6.40  | 6.49  | 6.58 |
|              | 20          | 10673                | 9582  | 8982 | 8381 | 5657 | /    | 6.72  | 7.14  | 7.61  | 8.09  | 7.56  | /    |
|              | 25          | 9819                 | 8987  | 7587 | 6186 | /    | /    | 7.12  | 7.63  | 7.85  | 8.07  | /     | /    |
|              | 30          | 8895                 | 8186  | 7006 | 5826 | /    | /    | 7.95  | 8.57  | 8.83  | 9.08  | /     | /    |
|              | 35          | 9251                 | 8587  | 7328 | 6069 | /    | /    | 8.30  | 9.01  | 9.28  | 9.55  | /     | /    |
|              | 40          | 9713                 | 8754  | 7825 | 6896 | /    | /    | 8.47  | 9.26  | 9.54  | 9.81  | /     | /    |
|              | 43          | 10005                | 9097  | 8150 | 7203 | /    | /    | 9.25  | 10.18 | 10.49 | 10.79 | /     | /    |
| 40           | -25         | 3520                 | 3260  | 2880 | 2499 | /    | /    | 1.57  | 1.57  | 1.59  | 1.60  | /     | /    |
|              | -20         | 4548                 | 4166  | 3538 | 2910 | /    | /    | 1.79  | 1.82  | 1.84  | 1.85  | /     | /    |
|              | -15         | 5859                 | 5308  | 4295 | 3281 | /    | /    | 2.28  | 2.34  | 2.37  | 2.40  | /     | /    |
|              | -10         | 7638                 | 6843  | 6396 | 5948 | 3972 | /    | 2.67  | 2.74  | 2.90  | 3.06  | 2.82  | /    |
|              | -7          | 7956                 | 7430  | 6725 | 6021 | 3517 | /    | 2.83  | 2.93  | 3.12  | 3.31  | 3.08  | /    |
|              | -5          | 8460                 | 7560  | 6869 | 6177 | 3671 | /    | 2.88  | 2.96  | 3.15  | 3.35  | 3.13  | /    |
|              | -2          | 8857                 | 7896  | 7173 | 6449 | 3830 | /    | 3.02  | 3.08  | 3.27  | 3.47  | 3.22  | /    |
|              | 0           | 9254                 | 8232  | 7477 | 6721 | 3988 | /    | 3.16  | 3.20  | 3.39  | 3.58  | 3.31  | /    |
|              | 2           | 9578                 | 8791  | 7992 | 7193 | 4287 | /    | 3.35  | 3.46  | 3.68  | 3.89  | 3.62  | /    |
|              | 5           | 10096                | 9228  | 8432 | 7635 | 4654 | /    | 3.83  | 3.92  | 4.16  | 4.39  | 4.07  | /    |
|              | 7           | 10448                | 10145 | 9216 | 8286 | 4921 | /    | 4.18  | 4.29  | 4.57  | 4.85  | 4.53  | /    |
|              | 10          | 9935                 | 8878  | 8110 | 7342 | 4471 | /    | 4.17  | 4.35  | 4.62  | 4.90  | 4.55  | /    |
|              | 12          | 10015                | 8990  | 8221 | 7452 | 4559 | /    | 4.42  | 4.66  | 4.95  | 5.26  | 4.89  | /    |
|              | 15          | 10134                | 9157  | 8387 | 7617 | 4692 | /    | 4.80  | 5.12  | 5.45  | 5.79  | 5.40  | /    |
|              | 20          | 10679                | 9703  | 8216 | 6728 | /    | /    | 5.66  | 6.08  | 6.26  | 6.44  | /     | /    |
|              | 25          | 9825                 | 9099  | 8136 | 7172 | /    | /    | 6.00  | 6.49  | 6.68  | 6.87  | /     | /    |
|              | 30          | 8852                 | 8242  | 7153 | 6064 | /    | /    | 6.72  | 7.32  | 7.54  | 7.75  | /     | /    |
|              | 35          | 9206                 | 8645  | 7499 | 6352 | /    | /    | 6.97  | 7.65  | 7.88  | 8.10  | /     | /    |
|              | 40          | 9666                 | 8817  | 7889 | 6960 | /    | /    | 7.34  | 8.11  | 8.35  | 8.59  | /     | /    |
|              | 43          | 9956                 | 9161  | 8215 | 7268 | /    | /    | 8.07  | 8.98  | 9.25  | 9.51  | /     | /    |
| 45           | -25         | 2963                 | 2776  | 2322 | 1967 | /    | /    | 1.31  | 1.30  | 1.31  | 1.31  | /     | /    |
|              | -20         | 3892                 | 3608  | 3011 | 2413 | /    | /    | 1.63  | 1.64  | 1.65  | 1.66  | /     | /    |
|              | -15         | 5566                 | 4937  | 4250 | 3562 | /    | /    | 2.02  | 2.05  | 2.07  | 2.08  | /     | /    |
|              | -10         | 7376                 | 6690  | 5580 | 4470 | /    | /    | 2.38  | 2.41  | 2.44  | 2.46  | /     | /    |
|              | -7          | 7683                 | 7350  | 6734 | 6117 | 3772 | /    | 2.52  | 2.55  | 2.71  | 2.87  | 2.67  | /    |
|              | -5          | 8181                 | 7433  | 6847 | 6261 | 3951 | /    | 2.65  | 2.72  | 2.88  | 3.04  | 2.80  | /    |
|              | -2          | 8535                 | 7650  | 7011 | 6372 | 3936 | /    | 2.76  | 2.84  | 3.00  | 3.17  | 2.92  | /    |
|              | 0           | 8889                 | 7866  | 7174 | 6482 | 3920 | /    | 2.87  | 2.97  | 3.14  | 3.31  | 3.04  | /    |
|              | 2           | 9244                 | 8500  | 7247 | 6644 | 4230 | /    | 3.01  | 3.20  | 3.38  | 3.56  | 3.28  | /    |
|              | 5           | 9786                 | 8582  | 7919 | 7255 | 4609 | /    | 3.40  | 3.55  | 3.76  | 3.97  | 3.66  | /    |
|              | 7           | 10279                | 10000 | 9277 | 8553 | 5551 | /    | 3.77  | 3.75  | 4.03  | 4.31  | 4.09  | /    |
|              | 10          | 9873                 | 8937  | 8395 | 7853 | 5341 | /    | 3.67  | 3.72  | 3.94  | 4.17  | 3.86  | /    |
|              | 12          | 9952                 | 9049  | 7996 | 6943 | /    | /    | 3.89  | 3.98  | 4.16  | 4.34  | /     | /    |
|              | 15          | 10070                | 9216  | 7398 | 5579 | /    | /    | 4.22  | 4.38  | 4.49  | 4.59  | /     | /    |
|              | 20          | 10283                | 9462  | 7919 | 6375 | /    | /    | 4.86  | 5.08  | 5.21  | 5.34  | /     | /    |
|              | 25          | 9460                 | 8871  | 7841 | 6811 | /    | /    | 5.15  | 5.43  | 5.57  | 5.70  | /     | /    |
|              | 30          | 9923                 | 9354  | 8324 | 7293 | /    | /    | 6.15  | 6.53  | 6.70  | 6.86  | /     | /    |
|              | 35          | 10320                | 9811  | 8724 | 7637 | /    | /    | 6.40  | 6.84  | 7.02  | 7.19  | /     | /    |
|              | 40          | 10836                | 10009 | 9122 | 8235 | /    | /    | 6.79  | 7.31  | 7.50  | 7.68  | /     | /    |
|              | 43          | 11161                | 10398 | 9552 | 8706 | /    | /    | 7.58  |       |       |       |       |      |

# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

OMNIA M 3.2 Mod. 12 - 12T - Prestazioni riscaldamento / Heating capacity

| Tw_out<br>°C | DB/WB<br>°C | Heating Capacity [W] |       |       |       |      |      | COP   |       |       |       |       |      |
|--------------|-------------|----------------------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|------|
|              |             | 130%                 | 100%  | 90%   | 70%   | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%   | 30%  |
| 25           | -25         | 6330                 | 5356  | 4497  | 3637  | /    | /    | 2.17  | 2.30  | 2.33  | 2.36  | /     | /    |
|              | -20         | 7745                 | 6728  | 5586  | 4443  | /    | /    | 2.55  | 2.75  | 2.77  | 2.78  | /     | /    |
|              | -15         | 8945                 | 7432  | 6142  | 4851  | /    | /    | 2.85  | 3.09  | 3.13  | 3.16  | /     | /    |
|              | -10         | 10981                | 9060  | 8305  | 7550  | 4667 | /    | 3.17  | 3.37  | 3.57  | 3.77  | 3.49  | /    |
|              | -7          | 12295                | 11094 | 9473  | 7853  | 6232 | 4611 | 3.49  | 3.57  | 3.66  | 3.76  | 3.85  | 3.94 |
|              | -5          | 12347                | 10261 | 9260  | 8258  | 4754 | /    | 3.71  | 4.03  | 4.28  | 4.52  | 4.19  | /    |
|              | -2          | 12413                | 10246 | 9280  | 8315  | 4872 | /    | 4.03  | 4.33  | 4.62  | 4.90  | 4.58  | /    |
|              | 0           | 12478                | 10232 | 9302  | 8373  | 4991 | /    | 4.35  | 4.63  | 4.95  | 5.27  | 4.96  | /    |
|              | 2           | 13362                | 10740 | 9811  | 8881  | 5408 | /    | 4.78  | 5.23  | 5.58  | 5.92  | 5.54  | /    |
|              | 5           | 14597                | 11765 | 10744 | 9722  | 5912 | /    | 5.49  | 6.05  | 6.44  | 6.82  | 6.35  | /    |
|              | 7           | 15445                | 12897 | 11686 | 10474 | 6147 | /    | 6.00  | 6.57  | 7.01  | 7.45  | 6.98  | /    |
|              | 10          | 14948                | 11824 | 10841 | 9858  | 6099 | /    | 6.22  | 6.88  | 7.32  | 7.77  | 7.24  | /    |
|              | 12          | 15016                | 11908 | 10887 | 9866  | 6030 | /    | 6.80  | 7.55  | 8.03  | 8.52  | 7.93  | /    |
|              | 15          | 15119                | 12035 | 10957 | 9879  | 5927 | /    | 7.67  | 8.56  | 9.10  | 9.64  | 8.96  | /    |
|              | 20          | 14563                | 11468 | 10485 | 9503  | 5810 | /    | 8.76  | 9.86  | 10.48 | 11.10 | 10.32 | /    |
| 30           | 25          | 14406                | 11417 | 10468 | 9520  | 5892 | /    | 9.31  | 10.47 | 11.13 | 11.79 | 10.97 | /    |
|              | 30          | 14636                | 11708 | 10951 | 10194 | 6827 | /    | 10.12 | 11.31 | 12.02 | 12.72 | 11.82 | /    |
|              | 35          | 15165                | 12359 | 11565 | 10772 | 7226 | /    | 10.87 | 12.09 | 12.89 | 13.68 | 12.79 | /    |
|              | 40          | 15688                | 13099 | 12251 | 11402 | 7632 | /    | 11.10 | 12.42 | 13.24 | 14.06 | 13.14 | /    |
|              | 43          | 16150                | 13728 | 12866 | 12005 | 8099 | /    | 11.96 | 13.47 | 14.36 | 15.25 | 14.26 | /    |
|              | -25         | 5960                 | 5121  | 4320  | 3518  | /    | /    | 2.15  | 2.29  | 2.32  | 2.35  | /     | /    |
|              | -20         | 7488                 | 6601  | 5411  | 4221  | /    | /    | 2.50  | 2.70  | 2.72  | 2.74  | /     | /    |
|              | -15         | 8657                 | 7351  | 6178  | 5004  | /    | /    | 2.65  | 2.88  | 2.91  | 2.94  | /     | /    |
|              | -10         | 10376                | 8263  | 7637  | 7011  | 4484 | /    | 2.74  | 2.92  | 3.10  | 3.27  | 3.03  | /    |
|              | -7          | 10943                | 10286 | 8678  | 7069  | 5461 | 3852 | 3.02  | 3.15  | 3.20  | 3.26  | 3.31  | 3.36 |
|              | -5          | 11212                | 10217 | 8678  | 7138  | 5599 | 4059 | 3.15  | 3.20  | 3.28  | 3.37  | 3.45  | 3.53 |
|              | -2          | 11649                | 10136 | 8689  | 7242  | 5794 | 4347 | 3.48  | 3.61  | 3.68  | 3.76  | 3.83  | 3.90 |
|              | 0           | 12086                | 10054 | 9067  | 8080  | 4636 | /    | 3.80  | 4.01  | 4.28  | 4.56  | 4.28  | /    |
|              | 2           | 12733                | 9960  | 9079  | 8198  | 4946 | /    | 4.09  | 4.47  | 4.75  | 5.04  | 4.69  | /    |
|              | 5           | 13710                | 10768 | 9813  | 8858  | 5337 | /    | 4.55  | 4.94  | 5.26  | 5.57  | 5.19  | /    |
|              | 7           | 14670                | 12107 | 10905 | 9702  | 5533 | /    | 5.01  | 5.42  | 5.79  | 6.17  | 5.79  | /    |
| 35           | 10          | 14361                | 11231 | 10276 | 9321  | 5716 | /    | 5.49  | 5.99  | 6.38  | 6.77  | 6.31  | /    |
|              | 12          | 14495                | 11365 | 10387 | 9408  | 5740 | /    | 5.95  | 6.52  | 6.94  | 7.36  | 6.86  | /    |
|              | 15          | 14697                | 11567 | 10553 | 9539  | 5776 | /    | 6.65  | 7.32  | 7.79  | 8.25  | 7.68  | /    |
|              | 20          | 14319                | 11147 | 10214 | 9281  | 5728 | /    | 7.60  | 8.45  | 8.98  | 9.52  | 8.85  | /    |
|              | 25          | 14279                | 11188 | 10281 | 9373  | 5854 | /    | 8.23  | 9.15  | 9.73  | 10.30 | 9.58  | /    |
|              | 30          | 14199                | 11231 | 10395 | 9498  | 5854 | /    | 8.75  | 9.66  | 10.29 | 10.91 | /     | /    |
|              | 35          | 14857                | 11975 | 10702 | 9429  | /    | /    | 9.29  | 10.21 | 10.51 | 10.81 | /     | /    |
|              | 40          | 15588                | 12876 | 11413 | 9950  | /    | /    | 9.82  | 10.86 | 11.18 | 11.50 | /     | /    |
|              | 43          | 15950                | 13414 | 11894 | 10374 | /    | /    | 10.61 | 11.81 | 12.16 | 12.51 | /     | /    |
|              | -25         | 5030                 | 4235  | 3755  | 3275  | /    | /    | 1.70  | 1.79  | 1.80  | 1.81  | /     | /    |
|              | -20         | 7213                 | 6254  | 5165  | 4075  | /    | /    | 2.16  | 2.30  | 2.32  | 2.33  | /     | /    |
|              | -15         | 8358                 | 7281  | 6099  | 4916  | /    | /    | 2.45  | 2.62  | 2.65  | 2.68  | /     | /    |
|              | -10         | 10022                | 8138  | 7506  | 6873  | 4359 | /    | 2.54  | 2.66  | 2.82  | 2.97  | 2.74  | /    |
|              | -7          | 11020                | 10000 | 8492  | 6984  | 5475 | 3967 | 2.83  | 3.00  | 3.04  | 3.07  | 3.11  | 3.14 |
|              | -5          | 11298                | 9949  | 8507  | 7065  | 5622 | 4180 | 2.92  | 3.03  | 3.09  | 3.15  | 3.20  | 3.26 |
| 40           | -2          | 11645                | 9868  | 8501  | 7134  | 5766 | 4399 | 3.20  | 3.39  | 3.44  | 3.49  | 3.54  | 3.59 |
|              | 0           | 11992                | 9786  | 8854  | 7922  | 4617 | /    | 3.48  | 3.74  | 3.98  | 4.21  | 3.92  | /    |
|              | 2           | 12638                | 9200  | 8484  | 7768  | 4924 | /    | 3.66  | 3.90  | 4.19  | 4.47  | 4.23  | /    |
|              | 5           | 13616                | 10566 | 9649  | 8732  | 5310 | /    | 4.15  | 4.50  | 4.79  | 5.08  | 4.73  | /    |
|              | 7 *         | 14571                | 12100 | 10912 | 9725  | 5581 | /    | 4.69  | 4.95  | 5.32  | 5.68  | 5.38  | /    |
|              | 10          | 14303                | 10884 | 9981  | 9078  | 5621 | /    | 5.06  | 5.51  | 5.87  | 6.23  | 5.81  | /    |
|              | 12          | 14327                | 10932 | 10017 | 9103  | 5619 | /    | 5.21  | 5.69  | 6.06  | 6.43  | 5.99  | /    |
|              | 15          | 14364                | 11003 | 10072 | 9140  | 5616 | /    | 5.43  | 5.97  | 6.35  | 6.73  | 6.26  | /    |
|              | 20          | 14223                | 10774 | 9907  | 9039  | 5661 | /    | 6.47  | 7.18  | 7.63  | 8.09  | 7.52  | /    |
|              | 25          | 14182                | 10814 | 9972  | 9130  | 5786 | /    | 7.35  | 8.15  | 8.66  | 9.18  | 8.54  | /    |
|              | 30          | 14347                | 11047 | 9433  | 8719  | /    | /    | 7.76  | 8.55  | 8.67  | 8.78  | /     | /    |
|              | 35          | 14712                | 11549 | 9857  | 8165  | /    | /    | 8.16  | 8.78  | 9.05  | 9.31  | /     | /    |
|              | 40          | 15483                | 12464 | 10606 | 8748  | /    | /    | 8.65  | 9.37  | 9.65  | 9.93  | /     | /    |
|              | 43          | 15889                | 13029 | 11123 | 9216  | /    | /    | 9.18  | 10.01 | 10.32 | 10.62 | /     | /    |
|              | -25         | 4530                 | 3878  | 3479  | 3080  | /    | /    | 1.45  | 1.51  | 1.52  | 1.53  | /     | /    |
|              | -20         | 6383                 | 5623  | 4672  | 3721  | /    | /    | 1.87  | 1.97  | 1.99  | 2.00  | /     | /    |
| 45           | -15         | 7934                 | 6633  | 5590  | 4546  | /    | /    | 2.19  | 2.32  | 2.35  | 2.37  | /     | /    |
|              | -10         | 9685                 | 8000  | 7406  | 6813  | 4387 | /    | 2.23  | 2.32  | 2.45  | 2.59  | 2.38  | /    |
|              | -7          | 10416                | 10143 | 8657  | 7171  | 5684 | 4198 | 2.44  | 2.50  | 2.56  | 2.62  | 2.68  | 2.74 |
|              | -5          | 10940                | 10072 | 8684  | 7295  | 5907 | 4518 | 2.57  | 2.68  | 2.74  | 2.79  | 2.85  | 2.90 |
|              | -2          | 11594                | 10089 | 9161  | 8233  | 4880 | /    | 2.80  | 2.97  | 3.17  | 3.38  | 3.17  | /    |
|              | 0           | 12249                | 10105 | 9273  | 8441  | 5243 | /    | 3.04  | 3.25  | 3.47  | 3.69  | 3.45  | /    |
|              | 2           | 12873                | 10067 | 9331  | 8595  | 5560 | /    | 3.28  | 3.58  | 3.83  | 4.08  | 3.83  | /    |
|              | 5           | 13783                | 10833 | 10037 | 9241  | 5968 | /    | 3.73  | 4.08  | 4.34  | 4.60  | 4.29  | /    |
|              | 7           | 14796                | 12355 | 11308 | 10262 | 6303 | /    | 4.14  | 4.50  | 4.81  | 5.12  | 4.80  | /    |
|              | 10          | 14606                | 11261 | 10478 | 9696  | 6368 | /    | 4.37  | 4.81  | 5.12  | 5.43  | 5.07  | /    |
|              | 12          | 14746                | 11399 | 10646 | 9894  | 6590 | /    | 4.51  | 4.98  | 5.30  | 5.62  | 5.24  | /    |
|              | 15          | 14955                | 11605 | 10898 | 10191 | 6924 | /    | 4.72  | 5.24  | 5.57  | 5.90  | 5.49  | /    |
|              | 20          | 14835                | 11386 | 10719 | 9972  | /    | /    | 5.39  | 6.04  | 6.18  | 6.32  | /     | /    |
|              | 25          | 14715                | 11367 | 10715 | 10063 | /    | /    | 6.26  | 7.09  | 7.58  | 7.36  | /     | /    |
|              | 30          | 14693                | 11461 | 10845 | 10228 | /    | /    | 6.63  | 7.58  | 7.84  | 7.52  | /     | /    |
|              | 35          | 15088                | 11995 | 11029 | 10298 | 8600 | /    | 6.95  | 7.99  | 8.23  | 8.47  | /     | /    |
| 50           | 40          | 15956                | 13004 | 11050 | 9095  | /    | /    | 7.36  | 7.99  | 8.23  | 8.47  | /     | /    |
|              | 43          | 16483                | 13681 | 11662 | 9643  | /    | /    | 7.82  | 8.54  | 8.80  | 9.06  | /     | /    |
|              | -25         | 4225                 | 3663  | 3247  | 2831  | /    | /    | 1.28  | 1.30  | 1.30  | 1.30  | /     | /    |
|              | -20         | 6051                 | 5307  | 4620  | 3933  | /    | /    | 1.72  | 1.77  | 1.76  | 1.75  | /     | /    |
|              | -15         | 7387                 | 6035  | 5382  | 4728  | /    | /    | 1.87  | 1.93  | 1.93  | 1.93  | /     | /    |
|              | -10         | 9323                 | 7803  | 6326  | 4848  | /    | /    | 2.05  | 2.11  | 2.13  | 2.15  | /     | /    |
|              | -7          | 10404                | 10200 | 9393  | 8586  | 5410 | /    | 2.31  | 2.40  | 2.55  | 2.71  | 2.52  | /    |
|              | -5          | 10943                | 10177 | 9482  | 8787  | 5800 | /    | 2.37  | 2.45  | 2.62  | 2.78  | 2.61  | /    |
|              | -2          | 11618                | 10203 | 8227  | 6250  | /    | /    | 2.59  | 2.71  | 2.79  | 2.86  | /     | /    |
|              | 0           | 12292                | 10228 | 8464  | 6699  | /    | /    | 2.81  | 2.96  | 3.04  | 3.11  | /     | /    |
|              | 2           | 12826                | 10600 | 8819  | 7038  | /    | /    | 2.92  | 3.00  | 3.16  | 3.32  | /     | /    |
|              | 5           | 13618                | 11082 | 9286  | 7490  | /    | /    | 3.26  | 3.51  | 3.59  | 3.66  | /     | /    |
|              | 7           | 14508                | 12300 | 10089 | 7878  | /    | /    | 3.63  | 3.70  | 3.90  | 4.10  | /     | /    |
|              | 10          | 14320                | 10912 | 9416  | 7919  | /    | /    | 3.69  | 3.99  | 4.08  | 4.16  | /     | /    |
|              | 12          | 14434                | 11028 | 9508  | 7988  | /    | /    | 3.87  | 4.20  | 4.29  | 4.37  | /     | /    |
|              | 15          | 14605                | 11202 | 9647  | 8091  | /    | /    | 4.14  | 4.52  | 4.61  | 4.69  | /     | /    |
| 55           | 20          | 14750                | 11188 | 9732  | 8275  | /    | /    | 4.69  | 5.16  | 5.26  | 5.36  | /     | /    |
|              | 25          | 14695                | 11220 | 9806  | 8391  | /    | /    | 5.39  | 5.93  | 6.05  | 6.16  | /     | /    |
|              | 30          | 14734                | 11360 | 9942  | 8523  | /    | /    | 5.59  | 5.88  | 6.03  | 6.18  | /     | /    |
|              | 35          | 14572                | 11454 | 10015 | 8576  | /    | /    | 5.83  | 6.17  | 6.33  | 6.49  | /     | /    |
|              | 40          | 15337                | 12362 | 10706 | 9049  | /    | /    | 6.29  | 6.71  | 6.88  | 7.05  | /     | /    |
|              | 43          | 15985                | 13124 | 11438 | 9751  |      |      |       |       |       |       |       |      |

# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

OMNIA M 3.2 Mod. 14 - 14T - Prestazioni riscaldamento / Heating capacity

| Tw_out<br>°C* | DB/WB<br>°C* | Heating Capacity [W] |       |       |       |      |      | COP   |       |       |       |       |      |
|---------------|--------------|----------------------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|------|
|               |              | 130%                 | 100%  | 90%   | 70%   | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%   | 30%  |
| 25            | -25          | 7004                 | 5847  | 4806  | 3765  | /    | /    | 2.14  | 2.27  | 2.30  | 2.33  | /     | /    |
|               | -20          | 8357                 | 7266  | 5924  | 4582  | /    | /    | 2.57  | 2.77  | 2.79  | 2.80  | /     | /    |
|               | -15          | 9612                 | 8026  | 6633  | 5239  | /    | /    | 2.82  | 3.06  | 3.10  | 3.13  | /     | /    |
|               | -10          | 11885                | 9805  | 8988  | 8171  | 5051 | /    | 3.12  | 3.31  | 3.51  | 3.71  | 3.44  | /    |
|               | -7           | 13707                | 12453 | 10625 | 8797  | 6968 | 5140 | 3.41  | 3.56  | 3.63  | 3.70  | 3.77  | 3.84 |
|               | -5           | 13900                | 12051 | 10376 | 8702  | 7027 | 5352 | 3.68  | 3.95  | 4.01  | 4.06  | 4.12  | 4.17 |
|               | -2           | 14109                | 12124 | 10919 | 9715  | 5539 | /    | 3.95  | 4.24  | 4.52  | 4.80  | 4.48  | /    |
|               | 0            | 14318                | 12197 | 11028 | 9858  | 5727 | /    | 4.21  | 4.52  | 4.82  | 5.13  | 4.80  | /    |
|               | 2            | 14685                | 11977 | 10913 | 9849  | 5930 | /    | 4.59  | 4.97  | 5.32  | 5.67  | 5.33  | /    |
|               | 5            | 15379                | 13396 | 12095 | 10794 | 6229 | /    | 5.25  | 5.61  | 6.02  | 6.42  | 6.07  | /    |
|               | 7            | 16272                | 15214 | 13030 | 10845 | 6476 | /    | 5.80  | 6.26  | 6.38  | 6.51  | 6.75  | /    |
|               | 10           | 15536                | 12289 | 11267 | 10245 | 6339 | /    | 6.81  | 7.53  | 8.02  | 8.50  | 7.93  | /    |
|               | 12           | 15450                | 12251 | 11201 | 10151 | 6205 | /    | 7.13  | 7.92  | 8.43  | 8.93  | 8.32  | /    |
|               | 15           | 15320                | 12195 | 11103 | 10010 | 6005 | /    | 7.62  | 8.50  | 9.04  | 9.57  | 8.90  | /    |
|               | 20           | 14904                | 11737 | 10732 | 9726  | 5947 | /    | 8.35  | 9.40  | 9.99  | 10.58 | 9.84  | /    |
|               | 25           | 14887                | 11798 | 10818 | 9838  | 6089 | /    | 9.08  | 10.22 | 10.86 | 11.51 | 10.70 | /    |
|               | 30           | 15250                | 12200 | 11411 | 10623 | 7114 | /    | 9.82  | 10.98 | 11.66 | 12.35 | 11.47 | /    |
|               | 35           | 16012                | 13050 | 12212 | 11374 | 7630 | /    | 11.05 | 12.28 | 13.09 | 13.90 | 13.00 | /    |
|               | 40           | 16222                | 13545 | 12668 | 11790 | 7892 | /    | 11.62 | 13.01 | 13.87 | 14.73 | 13.77 | /    |
|               | 43           | 16547                | 14065 | 13182 | 12300 | 8298 | /    | 12.20 | 13.75 | 14.66 | 15.57 | 14.55 | /    |
| 30            | -25          | 6761                 | 5706  | 4861  | 4016  | /    | /    | 2.11  | 2.25  | 2.28  | 2.30  | /     | /    |
|               | -20          | 8012                 | 7265  | 6020  | 4774  | /    | /    | 2.52  | 2.72  | 2.74  | 2.76  | /     | /    |
|               | -15          | 9466                 | 7939  | 6672  | 5405  | /    | /    | 2.62  | 2.85  | 2.88  | 2.91  | /     | /    |
|               | -10          | 11420                | 9364  | 8655  | 7945  | 5082 | /    | 2.73  | 2.91  | 3.09  | 3.26  | 3.02  | /    |
|               | -7           | 12914                | 12186 | 10276 | 8366  | 6456 | 4546 | 3.02  | 3.09  | 3.16  | 3.23  | 3.29  | 3.36 |
|               | -5           | 13191                | 11843 | 10076 | 8309  | 6542 | 4775 | 3.41  | 3.60  | 3.65  | 3.71  | 3.76  | 3.81 |
|               | -2           | 13436                | 11816 | 10126 | 8436  | 6745 | 5055 | 3.64  | 3.84  | 3.90  | 3.97  | 4.03  | 4.09 |
|               | 0            | 13681                | 11788 | 10603 | 9418  | 5336 | /    | 3.87  | 4.08  | 4.36  | 4.64  | 4.36  | /    |
|               | 2            | 14137                | 11801 | 10677 | 9552  | 5567 | /    | 4.11  | 4.46  | 4.75  | 5.04  | 4.71  | /    |
|               | 5            | 14908                | 13082 | 11758 | 10434 | 5889 | /    | 4.51  | 4.82  | 5.15  | 5.48  | 5.15  | /    |
|               | 7            | 15551                | 14540 | 12414 | 10287 | 6034 | /    | 4.94  | 5.24  | 5.35  | 5.46  | 5.68  | /    |
|               | 10           | 15519                | 12136 | 11104 | 10072 | 6177 | /    | 5.36  | 5.85  | 6.23  | 6.61  | 6.16  | /    |
|               | 12           | 15383                | 12060 | 11022 | 9984  | 6093 | /    | 5.53  | 6.06  | 6.45  | 6.84  | 6.37  | /    |
|               | 15           | 15180                | 11947 | 10900 | 9852  | 5966 | /    | 5.79  | 6.37  | 6.77  | 7.18  | 6.68  | /    |
|               | 20           | 14814                | 11533 | 10568 | 9602  | 5926 | /    | 6.74  | 7.49  | 7.96  | 8.44  | 7.85  | /    |
|               | 25           | 14748                | 11555 | 10618 | 9681  | 6047 | /    | 7.69  | 8.55  | 9.09  | 9.63  | 8.95  | /    |
|               | 30           | 14809                | 11714 | 10485 | 9256  | /    | /    | 8.21  | 9.07  | 9.28  | 9.49  | /     | /    |
|               | 35           | 15370                | 12388 | 10037 | 7685  | /    | /    | 9.04  | 9.93  | 10.23 | 10.52 | /     | /    |
|               | 40           | 16406                | 13551 | 10959 | 8367  | /    | /    | 10.29 | 11.38 | 11.72 | 12.06 | /     | /    |
| 35            | -25          | 5432                 | 4574  | 4055  | 3536  | /    | /    | 1.71  | 1.79  | 1.81  | 1.82  | /     | /    |
|               | -20          | 7790                 | 6754  | 5578  | 4401  | /    | /    | 2.18  | 2.32  | 2.34  | 2.35  | /     | /    |
|               | -15          | 9216                 | 7864  | 6587  | 5309  | /    | /    | 2.43  | 2.60  | 2.63  | 2.66  | /     | /    |
|               | -10          | 10949                | 8890  | 8200  | 7509  | 4763 | /    | 2.47  | 2.59  | 2.74  | 2.89  | 2.66  | /    |
|               | -7           | 12698                | 12000 | 10143 | 8286  | 6428 | 4571 | 2.79  | 2.85  | 2.91  | 2.98  | 3.04  | 3.10 |
|               | -5           | 12764                | 11874 | 10059 | 8243  | 6428 | 4612 | 2.99  | 3.06  | 3.13  | 3.20  | 3.27  | 3.34 |
|               | -2           | 12898                | 11798 | 10023 | 8249  | 6474 | 4699 | 3.12  | 3.26  | 3.32  | 3.38  | 3.44  | 3.50 |
|               | 0            | 13032                | 11723 | 9989  | 8255  | 6520 | 4786 | 3.26  | 3.45  | 3.50  | 3.56  | 3.61  | 3.66 |
|               | 2            | 13614                | 11000 | 9939  | 8879  | 5143 | 4879 | 3.46  | 3.60  | 3.89  | 4.18  | 4.00  | 3.77 |
|               | 5            | 14316                | 13009 | 11153 | 9296  | 7440 | 5583 | 3.94  | 4.10  | 4.20  | 4.30  | 4.39  | 4.49 |
|               | 7 *          | 15457                | 14500 | 12355 | 10210 | 8065 | 5920 | 4.59  | 4.60  | 4.77  | 4.94  | 5.10  | 5.27 |
|               | 10           | 14863                | 11310 | 10372 | 9433  | 5841 | /    | 4.79  | 5.22  | 5.56  | 5.90  | 5.50  | /    |
|               | 12           | 14984                | 11432 | 10476 | 9520  | 5877 | /    | 4.94  | 5.40  | 5.75  | 6.10  | 5.68  | /    |
|               | 15           | 15165                | 11616 | 10633 | 9650  | 5930 | /    | 5.16  | 5.67  | 6.03  | 6.39  | 5.94  | /    |
|               | 20           | 14642                | 11091 | 10198 | 9305  | 5828 | /    | 5.65  | 6.27  | 6.67  | 7.06  | 6.57  | /    |
|               | 25           | 14619                | 11147 | 10279 | 9412  | 5965 | /    | 6.15  | 6.82  | 7.25  | 7.68  | 7.15  | /    |
|               | 30           | 14857                | 11440 | 9769  | 8097  | /    | /    | 7.09  | 7.81  | 7.92  | 8.02  | /     | /    |
|               | 35           | 14994                | 11770 | 10046 | 8322  | /    | /    | 8.02  | 8.63  | 8.89  | 9.15  | /     | /    |
|               | 40           | 16213                | 13052 | 11106 | 9160  | /    | /    | 8.57  | 9.28  | 9.56  | 9.84  | /     | /    |
| 40            | -25          | 4892                 | 4188  | 3758  | 3327  | /    | /    | 1.46  | 1.51  | 1.53  | 1.54  | /     | /    |
|               | -20          | 6893                 | 6073  | 5046  | 4019  | /    | /    | 1.89  | 1.99  | 2.01  | 2.02  | /     | /    |
|               | -15          | 8569                 | 7163  | 6037  | 4910  | /    | /    | 2.17  | 2.29  | 2.32  | 2.35  | /     | /    |
|               | -10          | 10601                | 8756  | 8106  | 7457  | 4802 | /    | 2.26  | 2.34  | 2.48  | 2.61  | 2.41  | /    |
|               | -7           | 12317                | 11866 | 10141 | 8415  | 6690 | 4964 | 2.49  | 2.66  | 2.70  | 2.73  | 2.77  | 2.80 |
|               | -5           | 12560                | 11702 | 10073 | 8445  | 6816 | 5187 | 2.73  | 2.87  | 2.92  | 2.97  | 3.02  | 3.07 |
|               | -2           | 12783                | 11747 | 10583 | 9418  | 5377 | /    | 2.87  | 3.05  | 3.26  | 3.47  | 3.25  | /    |
|               | 0            | 13006                | 11793 | 10671 | 9548  | 5567 | /    | 3.01  | 3.23  | 3.44  | 3.66  | 3.42  | /    |
|               | 2            | 13463                | 11550 | 10554 | 9557  | 5827 | /    | 3.18  | 3.40  | 3.64  | 3.87  | 3.64  | /    |
|               | 5            | 14275                | 12620 | 11480 | 10341 | 6181 | /    | 3.61  | 3.87  | 4.14  | 4.42  | 4.16  | /    |
|               | 7            | 15596                | 14582 | 13128 | 11674 | 6644 | /    | 4.04  | 4.15  | 4.50  | 4.86  | 4.68  | /    |
|               | 10           | 15266                | 11770 | 10952 | 10134 | 6656 | /    | 4.24  | 4.67  | 4.97  | 5.27  | 4.92  | /    |
|               | 12           | 15493                | 11976 | 11186 | 10396 | 6926 | /    | 4.32  | 4.78  | 5.08  | 5.39  | 5.02  | /    |
|               | 15           | 15833                | 12286 | 11538 | 10789 | 7331 | /    | 4.45  | 4.94  | 5.25  | 5.57  | 5.18  | /    |
|               | 20           | 15232                | 11690 | 9425  | 7159  | /    | /    | 5.01  | 5.62  | 5.75  | 5.88  | /     | /    |
|               | 25           | 14930                | 11533 | 9350  | 7166  | /    | /    | 5.57  | 6.93  | 6.74  | 6.54  | /     | /    |
|               | 30           | 15060                | 11747 | 10091 | 8434  | /    | /    | 6.22  | 7.64  | 7.35  | 7.05  | /     | /    |
|               | 35           | 15490                | 12315 | 10572 | 8829  | /    | /    | 6.86  | 7.39  | 7.62  | 7.84  | /     | /    |
|               | 40           | 15963                | 13010 | 11055 | 9099  | /    | /    | 7.26  | 7.88  | 8.12  | 8.35  | /     | /    |
|               | 43           | 16282                | 13514 | 11520 | 9525  | /    | /    | 7.69  | 8.40  | 8.65  | 8.90  | /     | /    |
| 45            | -25          | 4474                 | 3879  | 3439  | 2998  | /    | /    | 1.29  | 1.30  | 1.31  | 1.31  | /     | /    |
|               | -20          | 6246                 | 5478  | 4769  | 4060  | /    | /    | 1.73  | 1.78  | 1.77  | 1.76  | /     | /    |
|               | -15          | 7632                 | 6235  | 5560  | 4884  | /    | /    | 1.85  | 1.91  | 1.91  | 1.91  | /     | /    |
|               | -10          | 9638                 | 8067  | 6540  | 5012  | /    | /    | 2.04  | 2.09  | 2.11  | 2.13  | /     | /    |
|               | -7           | 11943                | 11700 | 10775 | 9851  | 6210 | /    | 2.31  | 2.35  | 2.51  | 2.68  | 2.52  | /    |
|               | -5           | 12071                | 11681 | 10812 | 9943  | 6398 | /    | 2.42  | 2.47  | 2.64  | 2.82  | 2.65  | /    |
|               | -2           | 12383                | 11709 | 10905 | 10102 | 6658 | /    | 2.52  | 2.58  | 2.76  | 2.95  | 2.78  | /    |
|               | 0            | 12694                | 11736 | 10998 | 10260 | 6918 | /    | 2.62  | 2.69  | 2.88  | 3.07  | 2.90  | /    |
|               | 2            | 13317                | 11500 | 9415  | 7330  | /    | /    | 2.75  | 2.85  | 2.99  | 3.13  | /     | /    |
|               | 5            | 14290                | 12703 | 10281 | 7859  | /    | /    | 3.11  | 3.30  | 3.40  | 3.49  | /     | /    |
|               | 7            | 15649                | 14100 | 11299 | 8497  | /    | /    | 3.60  | 3.60  | 3.84  | 4.07  | /     | /    |
|               | 10           | 14974                | 11410 | 9846  | 8281  | /    | /    | 3.67  | 3.97  | 4.06  | 4.15  | /     | /    |
|               | 12           | 15186                | 11602 | 10004 | 8404  | /    | /    | 3.76  | 4.08  | 4.17  | 4.26  | /     | /    |
|               | 15           | 15503                | 11891 | 10240 | 8589  | /    | /    | 3.89  | 4.25  | 4.34  | 4.42  | /     | /    |
|               | 20           | 15121                | 11469 | 9976  | 8483  | /    | /    | 4.42  | 4.87  | 4.97  | 5.06  | /     | /    |
|               | 25           | 14739                | 11253 | 9835  | 8416  | /    | /    | 4.95  | 5.46  | 5.57  | 5.67  | /     | /    |
|               | 30           | 14997                | 11562 | 10119 | 8675  | /    | /    | 5.36  | 5.63  | 5.78  | 5.92  | /     | /    |
|               | 35           | 15254                | 11990 | 10484 | 8977  | /    | /    | 5.77  | 6.10  | 6.26  | 6.42  | /     | /    |
|               | 40           | 15751                | 12695 | 10994 | 9293  | /    | /    | 6.08  | 6.48  | 6.65  | 6.82  | /     | /    |
|               | 43           | 16066                | 13190 | 11214 | 9238  | /    | /    | 6.27  | 6.73  | 6.91  | 7.08  | /     | /    |

| Tw_out<br>°C* | DB/WB<br>°C* | Heating Capacity [W] |  |
|---------------|--------------|----------------------|--|
|---------------|--------------|----------------------|--|

# TABELLE PRESTAZIONALI - MODO RISCALDAMENTO / CAPACITY TABLES - HEATING MODE

OMNIA M 3.2 Mod. 16 - 16T - Prestazioni riscaldamento / Heating capacity

| Tw_out<br>°C | °DB/WB<br>°C | Heating Capacity [W] |       |       |       |       |      | COP   |       |       |       |      |      |
|--------------|--------------|----------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|------|
|              |              | 130%                 | 100%  | 90%   | 70%   | 50%   | 30%  | 130%  | 100%  | 90%   | 70%   | 50%  | 30%  |
| 25           | -25          | 7689                 | 6574  | 5479  | 4383  |       |      | 1.91  | 2.03  | 2.06  | 2.08  |      |      |
|              | -20          | 9571                 | 8422  | 6867  | 5312  |       |      | 2.38  | 2.56  | 2.58  | 2.60  |      |      |
|              | -15          | 11844                | 9890  | 8173  | 6455  |       |      | 2.71  | 2.93  | 2.97  | 3.00  |      |      |
|              | -10          | 13403                | 11058 | 10136 | 9215  | 5696  |      | 2.97  | 3.15  | 3.34  | 3.53  | 3.27 |      |
|              | -7           | 14339                | 13872 | 11748 | 9625  | 7501  | 5377 | 3.13  | 3.25  | 3.32  | 3.39  | 3.45 | 3.52 |
|              | -5           | 14553                | 13711 | 11684 | 9657  | 7630  | 5603 | 3.47  | 3.56  | 3.65  | 3.75  | 3.84 | 3.93 |
|              | -2           | 14821                | 13407 | 11510 | 9613  | 7716  | 5819 | 3.90  | 4.04  | 4.14  | 4.24  | 4.33 | 4.43 |
|              | 0            | 15089                | 13102 | 11814 | 10526 | 8036  |      | 4.33  | 4.52  | 4.86  | 5.20  | 4.94 |      |
|              | 2            | 15734                | 13246 | 12013 | 10780 | 8354  |      | 4.68  | 5.07  | 5.41  | 5.75  | 5.39 |      |
|              | 5            | 16794                | 14136 | 12826 | 11516 | 8802  |      | 5.19  | 5.61  | 6.00  | 6.38  | 5.99 |      |
|              | 7            | 17476                | 16963 | 14461 | 11959 | 8955  |      | 5.53  | 5.91  | 6.04  | 6.17  | 6.43 |      |
|              | 10           | 18005                | 14242 | 12828 | 11414 | 8511  |      | 6.02  | 6.66  | 7.09  | 7.52  | 7.01 |      |
|              | 12           | 18358                | 14439 | 13003 | 11566 | 8591  |      | 6.35  | 7.05  | 7.50  | 7.95  | 7.40 |      |
|              | 15           | 18887                | 14734 | 13265 | 11795 | 8712  |      | 6.84  | 7.63  | 8.11  | 8.59  | 7.99 |      |
|              | 20           | 17218                | 13265 | 12142 | 11019 | 8770  |      | 8.03  | 9.04  | 9.61  | 10.18 | 9.46 |      |
|              | 30           | -25                  | 7986  | 6788  | 5766  | 4744  |      |       | 1.93  | 2.06  | 2.09  | 2.11 |      |
| -20          |              | 9712                 | 8498  | 7041  | 5584  |       |      | 2.19  | 2.37  | 2.39  | 2.40  |      |      |
| -15          |              | 11268                | 9352  | 7859  | 6366  |       |      | 2.45  | 2.66  | 2.69  | 2.72  |      |      |
| -10          |              | 13032                | 10687 | 9877  | 9067  | 5799  |      | 2.72  | 2.90  | 3.08  | 3.25  | 3.01 |      |
| -7           |              | 14091                | 13542 | 11397 | 9251  | 7106  | 4960 | 2.88  | 3.05  | 3.09  | 3.13  | 3.17 | 3.21 |
| -5           |              | 14253                | 13616 | 11502 | 9388  | 7274  | 5160 | 3.13  | 3.30  | 3.35  | 3.40  | 3.45 | 3.50 |
| -2           |              | 14356                | 13326 | 11342 | 9357  | 7373  | 5388 | 3.44  | 3.66  | 3.71  | 3.76  | 3.81 | 3.86 |
| 0            |              | 14459                | 13037 | 11182 | 9327  | 7472  | 5617 | 3.75  | 4.01  | 4.07  | 4.12  | 4.18 | 4.23 |
| 2            |              | 15096                | 13097 | 11245 | 9394  | 7542  | 5690 | 3.91  | 4.12  | 4.18  | 4.23  | 4.29 | 4.34 |
| 5            |              | 16525                | 13656 | 11686 | 9717  | 7747  | 5777 | 4.06  | 4.28  | 4.37  | 4.46  | 4.55 | 4.64 |
| 7            |              | 16912                | 16143 | 13525 | 10906 | 8628  | 5669 | 4.60  | 5.11  | 5.18  | 5.25  | 5.31 | 5.38 |
| 10           |              | 17759                | 13893 | 12632 | 11370 | 8780  |      | 4.96  | 5.42  | 5.77  | 6.12  | 5.70 |      |
| 12           |              | 18064                | 14162 | 12845 | 11528 | 8798  |      | 5.40  | 6.01  | 6.39  | 6.78  | 6.31 |      |
| 15           |              | 18522                | 14566 | 13165 | 11765 | 8824  |      | 6.05  | 6.89  | 7.33  | 7.76  | 7.22 |      |
| 20           |              | 16809                | 13164 | 12090 | 11015 | 8864  |      | 7.10  | 7.89  | 8.39  | 8.89  | 8.27 |      |
| 35           |              | -25                  | 16185 | 12681 | 11754 | 10827 | 7004 |       | 7.26  | 8.06  | 8.57  | 9.08 | 8.45 |
|              | -20          | 15461                | 12230 | 9903  | 7576  |       |      | 8.21  | 9.06  | 9.27  | 9.48  |      |      |
|              | -15          | 16351                | 13240 | 10758 | 8276  |       |      | 9.01  | 9.90  | 10.19 | 10.48 |      |      |
|              | -10          | 17641                | 14571 | 11784 | 8997  |       |      | 10.06 | 11.13 | 11.46 | 11.79 |      |      |
|              | -7           | 17994                | 15133 | 12290 | 9447  |       |      | 10.51 | 11.71 | 12.06 | 12.40 |      |      |
|              | -5           | 6610                 | 5566  | 4935  | 4303  |       |      | 1.65  | 1.73  | 1.75  | 1.76  |      |      |
|              | -20          | 8159                 | 7073  | 5842  | 4610  |       |      | 1.71  | 1.82  | 1.84  | 1.85  |      |      |
|              | -15          | 10707                | 8801  | 7372  | 5942  |       |      | 2.17  | 2.32  | 2.35  | 2.38  |      |      |
|              | -10          | 12683                | 10298 | 9498  | 8698  | 5517  |      | 2.49  | 2.61  | 2.76  | 2.91  | 2.68 |      |
|              | -7           | 13868                | 13100 | 11073 | 9046  | 7019  | 4992 | 2.67  | 2.70  | 2.77  | 2.84  | 2.90 | 2.97 |
|              | -5           | 13983                | 13201 | 11194 | 9188  | 7181  | 5174 | 2.86  | 2.95  | 3.01  | 3.08  | 3.14 | 3.20 |
|              | -2           | 14128                | 13066 | 11133 | 9200  | 7267  | 5334 | 3.10  | 3.18  | 3.26  | 3.33  | 3.41 | 3.48 |
|              | 0            | 14272                | 12930 | 11071 | 9213  | 7354  | 5495 | 3.34  | 3.40  | 3.49  | 3.58  | 3.67 | 3.76 |
|              | 2            | 14716                | 13000 | 11206 | 9411  | 7617  | 5822 | 3.43  | 3.45  | 3.61  | 3.78  | 3.94 | 4.10 |
|              | 5            | 16071                | 13460 | 12155 | 10850 | 8268  | 5966 | 4.04  | 4.35  | 4.64  | 4.92  | 4.60 | 4.44 |
|              | 7*           | 16791                | 15900 | 13533 | 11166 | 8798  | 6431 | 4.43  | 4.50  | 4.65  | 4.79  | 4.94 | 5.08 |
| 40           | -25          | 17585                | 14842 | 13253 | 11224 | 8926  |      | 4.74  | 5.16  | 5.50  | 5.83  | 5.44 |      |
|              | -20          | 17914                | 13882 | 12704 | 11525 | 9073  |      | 5.01  | 5.48  | 5.84  | 6.19  | 5.77 |      |
|              | -15          | 18407                | 14483 | 13230 | 11977 | 9293  |      | 5.41  | 5.97  | 6.35  | 6.73  | 6.26 |      |
|              | -10          | 19074                | 14953 | 13277 | 11901 | 9498  |      | 6.21  | 6.88  | 7.31  | 7.75  | 7.21 |      |
|              | -7           | 20237                | 15228 | 13884 | 12249 | 9843  |      | 6.94  | 7.71  | 8.19  | 8.68  | 8.07 |      |
|              | -5           | 20969                | 16184 | 14105 | 12376 | 10105 |      | 7.68  | 8.47  | 8.59  | 8.70  |      |      |
|              | -2           | 21309                | 16309 | 14202 | 12501 | 10301 |      | 8.42  | 9.06  | 9.33  | 9.60  |      |      |
|              | 0            | 21748                | 16885 | 14815 | 12945 | 10545 |      | 9.15  | 9.91  | 10.21 | 10.51 |      |      |
|              | 2            | 22593                | 17593 | 15426 | 13215 | 10204 |      | 9.37  | 10.21 | 10.52 | 10.83 |      |      |
|              | -25          | 5892                 | 5044  | 4526  | 4007  |       |      | 1.33  | 1.38  | 1.39  | 1.40  |      |      |
|              | -20          | 7479                 | 6589  | 5475  | 4360  |       |      | 1.57  | 1.65  | 1.67  | 1.68  |      |      |
|              | -15          | 10065                | 8414  | 7091  | 5767  |       |      | 1.92  | 2.03  | 2.06  | 2.08  |      |      |
|              | -10          | 12424                | 10262 | 9501  | 8740  | 5628  |      | 2.28  | 2.37  | 2.51  | 2.64  | 2.43 |      |
|              | -7           | 13839                | 13085 | 11208 | 9331  | 7454  | 5577 | 2.50  | 2.63  | 2.67  | 2.72  | 2.76 | 2.80 |
|              | -5           | 13841                | 13125 | 11273 | 9421  | 7568  | 5716 | 2.61  | 2.70  | 2.76  | 2.82  | 2.88 | 2.94 |
|              | -2           | 13843                | 12934 | 11625 | 10315 | 8821  |      | 2.75  | 2.87  | 3.08  | 3.29  | 3.11 |      |
| 0            | 13845        | 12744                | 11506 | 10269 | 8926  |       | 2.88 | 3.03  | 3.25  | 3.47  | 3.28  |      |      |
| 45           | 2            | 14476                | 12717 | 11584 | 10451 | 8285  |      | 3.05  | 3.20  | 3.46  | 3.72  | 3.56 |      |
|              | 5            | 15637                | 13091 | 12008 | 10924 | 8771  |      | 3.43  | 3.66  | 3.92  | 4.19  | 3.95 |      |
|              | 7            | 16354                | 13740 | 12547 | 11354 | 8967  |      | 3.85  | 3.94  | 4.07  | 4.20  | 4.33 |      |
|              | 10           | 17067                | 13159 | 12245 | 11330 | 9441  |      | 3.96  | 4.36  | 4.64  | 4.92  | 4.59 |      |
|              | 12           | 17542                | 13566 | 12671 | 11776 | 9845  |      | 4.17  | 4.61  | 4.90  | 5.20  | 4.84 |      |
|              | 15           | 18255                | 14176 | 13311 | 12445 | 10452 |      | 4.48  | 4.98  | 5.30  | 5.61  | 5.22 |      |
|              | 20           | 16393                | 12649 | 10412 | 8175  |       |      | 5.12  | 5.75  | 5.89  | 6.02  |      |      |
|              | 25           | 16149                | 12670 | 10331 | 7992  |       |      | 5.81  | 7.22  | 7.02  | 6.82  |      |      |
|              | 30           | 15405                | 12406 | 10657 | 8907  |       |      | 6.49  | 7.98  | 7.67  | 7.36  |      |      |
|              | 35           | 16228                | 13219 | 11349 | 9478  |       |      | 6.87  | 7.40  | 7.63  | 7.85  |      |      |
|              | 40           | 17351                | 14141 | 12016 | 9890  |       |      | 7.24  | 7.86  | 8.10  | 8.34  |      |      |
|              | 43           | 17698                | 14689 | 12521 | 10353 |       |      | 7.41  | 8.10  | 8.35  | 8.59  |      |      |
|              | -25          | 4963                 | 4303  | 3814  | 3325  |       |      | 1.18  | 1.19  | 1.20  | 1.20  |      |      |
|              | -20          | 6546                 | 5741  | 4998  | 4255  |       |      | 1.35  | 1.39  | 1.38  | 1.37  |      |      |
|              | -15          | 9029                 | 7377  | 6578  | 5779  |       |      | 1.68  | 1.73  | 1.73  | 1.73  |      |      |
|              | -10          | 11053                | 9252  | 7500  | 5748  |       |      | 1.96  | 2.01  | 2.03  | 2.05  |      |      |
| -7           | 13128        | 12800                | 11797 | 10795 | 8627  |       | 2.18 | 2.25  | 2.40  | 2.55  | 2.38  |      |      |
| -5           | 13379        | 12730                | 11816 | 10902 | 7091  |       | 2.28 | 2.32  | 2.49  | 2.65  | 2.50  |      |      |
| -2           | 13717        | 12755                | 11914 | 11072 | 7376  |       | 2.46 | 2.52  | 2.70  | 2.88  | 2.71  |      |      |
| 0            | 14056        | 12781                | 12012 | 11243 | 7661  |       | 2.64 | 2.71  | 2.90  | 3.10  | 2.92  |      |      |
| 2            | 14730        | 12700                | 10408 | 8116  |       |       | 2.72 | 2.85  | 3.02  | 3.19  |       |      |      |
| 5            | 15884        | 13142                | 10939 | 8736  |       |       | 3.20 | 3.39  | 3.49  | 3.59  |       |      |      |
| 7            | 16615        | 16000                | 14881 | 13762 | 9022  |       | 3.53 | 3.50  | 3.81  | 4.12  | 3.99  |      |      |
| 10           | 17331        | 13206                | 11395 | 9584  |       |       | 3.67 | 3.97  | 4.06  | 4.15  |       |      |      |
| 12           | 17809        | 13607                | 11731 | 9856  |       |       | 3.84 | 4.17  | 4.26  | 4.35  |       |      |      |
| 15           | 18525        | 14209                | 12236 | 10263 |       |       | 4.09 | 4.46  | 4.55  | 4.64  |       |      |      |
| 20           | 16109        | 12219                | 10628 | 9037  |       |       | 4.28 | 4.71  | 4.80  | 4.89  |       |      |      |
| 25           | 15728        | 12008                | 10494 | 8980  |       |       | 4.87 | 5.36  | 5.47  | 5.57  |       |      |      |
| 30           | 15046        | 11832                | 10355 | 8878  |       |       | 5.46 | 5.74  | 5.89  | 6.03  |       |      |      |
| 35           | 15877        | 12479                | 10911 | 9343  |       |       | 5.68 | 6.02  | 6.18  | 6.33  |       |      |      |
| 40           | 16407        | 13224                | 11452 | 9680  |       |       | 5.91 | 6.30  | 6.46  | 6.62  |       |      |      |
| 43           | 16735        | 13740                | 11974 | 10208 |       |       | 6.20 | 6.66  | 6.83  | 7.00  |       |      |      |

# TABELLE PRESTAZIONALI - MODO RAFFREDDAMENTO / CAPACITY TABLES - COOLING MODE

OMNIA M 3.2 Mod. 4 - Prestazioni raffreddamento / Cooling capacity

| *Tw_out<br>°C" | *DB/WB<br>°C" | Cooling Capacity [W] |      |      |      |      |      | EER   |       |       |       |       |      |
|----------------|---------------|----------------------|------|------|------|------|------|-------|-------|-------|-------|-------|------|
|                |               | 130%                 | 100% | 90%  | 70%  | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%   | 30%  |
| 5              | -5            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 0             | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 5             | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 10            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 15            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 20            | 4715                 | 3676 | 3360 | 3044 | 1858 | /    | 4,53  | 4,76  | 5,05  | 5,34  | 4,95  | /    |
|                | 25            | 5872                 | 4651 | 4218 | 3785 | 2231 | /    | 4,51  | 4,78  | 5,05  | 5,32  | 4,89  | /    |
|                | 30            | 5836                 | 4693 | 4250 | 3807 | 2229 | /    | 3,78  | 4,02  | 4,24  | 4,47  | 4,10  | /    |
|                | 35            | 5799                 | 4506 | 4057 | 3607 | 2053 | /    | 3,24  | 3,32  | 3,54  | 3,75  | 3,50  | /    |
|                | 40            | 3803                 | 3105 | 2792 | 2479 | 1402 | /    | 2,52  | 2,70  | 2,83  | 2,96  | 2,69  | /    |
|                | 43            | 2582                 | 2120 | 1772 | 1423 | 1075 | 726  | 2,24  | 2,33  | 2,34  | 2,36  | 2,37  | 2,38 |
| 7              | -5            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 0             | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 5             | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 10            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 15            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 20            | 5265                 | 4096 | 3706 | 3316 | 1933 | /    | 4,73  | 4,95  | 5,27  | 5,58  | 5,20  | /    |
|                | 25            | 6304                 | 4978 | 4291 | 3605 | 2231 | /    | 4,65  | 4,88  | 4,92  | 4,95  | 5,02  | /    |
|                | 30            | 6206                 | 4974 | 4283 | 3592 | 2210 | /    | 3,99  | 4,20  | 4,24  | 4,28  | 4,35  | /    |
|                | 35            | 6107                 | 4700 | 4254 | 3807 | 2222 | /    | 3,32  | 3,45  | 3,72  | 3,99  | 3,80  | /    |
|                | 40            | 4363                 | 3552 | 3208 | 2864 | 1655 | /    | 2,64  | 2,81  | 2,96  | 3,12  | 2,86  | /    |
|                | 43            | 3134                 | 2451 | 2100 | 1748 | 1045 | /    | 2,35  | 2,41  | 2,43  | 2,45  | 2,49  | /    |
| 10             | -5            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 0             | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 5             | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 10            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 15            | 5049                 | 3787 | 3055 | 2323 | /    | /    | 5,91  | 6,25  | 6,45  | 6,64  | /     | /    |
|                | 20            | 6009                 | 4858 | 4175 | 3493 | 2810 | 2127 | 4,47  | 4,80  | 4,85  | 4,90  | 4,95  | 5,00 |
|                | 25            | 6968                 | 5721 | 4883 | 4045 | 3207 | 2369 | 3,80  | 4,09  | 4,14  | 4,19  | 4,24  | 4,29 |
|                | 30            | 6803                 | 5669 | 4834 | 3998 | 3163 | 2327 | 3,67  | 3,92  | 3,97  | 4,02  | 4,06  | 4,11 |
|                | 35            | 6638                 | 5450 | 4919 | 4388 | 2529 | /    | 3,55  | 3,82  | 4,06  | 4,30  | 4,00  | /    |
|                | 40            | 5082                 | 4296 | 3882 | 3469 | 2011 | /    | 2,81  | 3,03  | 3,21  | 3,38  | 3,12  | /    |
|                | 43            | 3800                 | 2987 | 2708 | 2429 | 1429 | /    | 2,51  | 2,59  | 2,74  | 2,90  | 2,68  | /    |
| 15             | -5            | 4759                 | 3832 | 3156 | 2479 | /    | /    | 10,30 | 11,74 | 12,17 | 12,60 | /     | /    |
|                | 0             | 4538                 | 3660 | 3018 | 2375 | /    | /    | 8,03  | 9,35  | 9,64  | 9,92  | /     | /    |
|                | 5             | 4038                 | 3235 | 2986 | 2736 | 1740 | /    | 6,07  | 6,68  | 7,20  | 7,72  | 7,35  | /    |
|                | 10            | 6063                 | 4872 | 4519 | 4165 | 2701 | /    | 5,71  | 6,29  | 6,80  | 7,30  | 6,99  | /    |
|                | 15            | 8088                 | 6794 | 6266 | 5739 | 3640 | /    | 5,55  | 5,89  | 6,29  | 6,70  | 6,29  | /    |
|                | 20            | 8159                 | 6801 | 6200 | 5598 | 3378 | /    | 5,47  | 5,88  | 6,27  | 6,66  | 6,23  | /    |
|                | 25            | 8230                 | 6963 | 6302 | 5640 | 3292 | /    | 5,39  | 5,74  | 6,11  | 6,48  | 6,04  | /    |
|                | 30            | 7771                 | 6669 | 6028 | 5386 | 3124 | /    | 4,72  | 5,06  | 5,38  | 5,70  | 5,30  | /    |
|                | 35            | 7311                 | 6024 | 5497 | 4970 | 3012 | /    | 4,28  | 4,63  | 4,94  | 5,25  | 4,91  | /    |
|                | 40            | 5914                 | 5147 | 4683 | 4219 | 2523 | /    | 3,41  | 3,68  | 3,90  | 4,13  | 3,82  | /    |
|                | 43            | 5075                 | 4040 | 3712 | 3383 | 2111 | /    | 3,26  | 3,43  | 3,64  | 3,85  | 3,57  | /    |
| 18             | -5            | 5185                 | 4182 | 3437 | 2691 | /    | /    | 10,32 | 11,97 | 12,28 | 12,59 | /     | /    |
|                | 0             | 4961                 | 4008 | 3297 | 2586 | /    | /    | 8,19  | 9,70  | 9,90  | 10,09 | /     | /    |
|                | 5             | 4454                 | 3557 | 3283 | 3009 | 1914 | /    | 6,30  | 7,07  | 7,57  | 8,08  | 7,62  | /    |
|                | 10            | 6341                 | 5079 | 4710 | 4342 | 2815 | /    | 6,15  | 6,91  | 7,42  | 7,93  | 7,51  | /    |
|                | 15            | 8130                 | 6911 | 6340 | 5768 | 3577 | /    | 6,10  | 6,56  | 7,04  | 7,51  | 7,10  | /    |
|                | 20            | 8278                 | 7013 | 6447 | 5880 | 3678 | /    | 6,05  | 6,50  | 6,92  | 7,33  | 6,83  | /    |
|                | 25            | 8410                 | 7274 | 6635 | 5996 | 3628 | /    | 6,00  | 6,45  | 6,85  | 7,25  | 6,74  | /    |
|                | 30            | 8094                 | 7032 | 6406 | 5779 | 3476 | /    | 5,27  | 5,63  | 5,98  | 6,34  | 5,89  | /    |
|                | 35 *          | 7649                 | 4500 | 3928 | 3355 | /    | /    | 4,73  | 5,50  | 5,59  | 5,62  | /     | /    |
|                | 40            | 6358                 | 5602 | 5130 | 4659 | 2868 | /    | 3,75  | 4,07  | 4,31  | 4,54  | 4,19  | /    |
|                | 43            | 5556                 | 4584 | 4199 | 3815 | 2352 | /    | 3,56  | 3,79  | 4,01  | 4,23  | 3,90  | /    |
| 20             | -5            | 5468                 | 4450 | 3661 | 2871 | /    | /    | 10,01 | 11,92 | 12,15 | 12,38 | /     | /    |
|                | 0             | 5247                 | 4277 | 3522 | 2767 | /    | /    | 8,08  | 9,81  | 9,95  | 10,09 | /     | /    |
|                | 5             | 4747                 | 3809 | 3520 | 3231 | 2065 | /    | 6,34  | 7,29  | 7,78  | 8,28  | 7,76  | /    |
|                | 10            | 6443                 | 5185 | 4815 | 4445 | 2896 | /    | 6,40  | 7,37  | 7,89  | 8,40  | 7,91  | /    |
|                | 15            | 8139                 | 7000 | 6388 | 5775 | 3500 | /    | 6,44  | 7,06  | 7,62  | 8,17  | 7,80  | /    |
|                | 20            | 8331                 | 7170 | 6643 | 6115 | 3949 | /    | 6,42  | 6,94  | 7,39  | 7,84  | 7,32  | /    |
|                | 25            | 8523                 | 7441 | 6845 | 6249 | 3921 | /    | 6,40  | 6,98  | 7,43  | 7,87  | 7,33  | /    |
|                | 30            | 8195                 | 7255 | 6664 | 6073 | 3786 | /    | 5,63  | 6,05  | 6,44  | 6,84  | 6,38  | /    |
|                | 35            | 7866                 | 6867 | 6328 | 5789 | 3658 | /    | 5,06  | 5,48  | 5,88  | 6,27  | 5,92  | /    |
|                | 40            | 6627                 | 5947 | 5483 | 5019 | 3179 | /    | 3,95  | 4,34  | 4,60  | 4,86  | 4,50  | /    |
|                | 43            | 5884                 | 5037 | 4609 | 4181 | 2565 | /    | 3,74  | 4,04  | 4,28  | 4,52  | 4,17  | /    |
| 25             | -5            | 6094                 | 4951 | 4082 | 3212 | /    | /    | 12,66 | 14,10 | 14,97 | 15,83 | /     | /    |
|                | 0             | 5873                 | 4779 | 3944 | 3109 | /    | /    | 10,70 | 13,31 | 13,36 | 13,40 | /     | /    |
|                | 5             | 5373                 | 4360 | 4025 | 3689 | 2348 | /    | 8,28  | 9,77  | 10,37 | 10,97 | 10,17 | /    |
|                | 10            | 7113                 | 5789 | 5370 | 4951 | 3212 | /    | 8,37  | 9,89  | 10,52 | 11,15 | 10,39 | /    |
|                | 15            | 8853                 | 7437 | 6932 | 6427 | 4249 | /    | 8,43  | 9,29  | 10,04 | 10,79 | 10,32 | /    |
|                | 20            | 8984                 | 7821 | 7282 | 6742 | 4438 | /    | 8,15  | 8,98  | 9,57  | 10,16 | 9,50  | /    |
|                | 25            | 9115                 | 8049 | 7441 | 6833 | 4375 | /    | 7,90  | 8,85  | 9,41  | 9,97  | 9,28  | /    |
|                | 30            | 8773                 | 7854 | 7250 | 6645 | 4228 | /    | 6,75  | 7,44  | 7,89  | 8,34  | 7,72  | /    |
|                | 35            | 8430                 | 7688 | 7122 | 6556 | 4232 | /    | 5,84  | 6,39  | 6,83  | 7,28  | 6,84  | /    |
|                | 40            | 7878                 | 7147 | 6658 | 6169 | 4070 | /    | 4,80  | 5,41  | 5,71  | 6,01  | 5,51  | /    |
|                | 43            | 7546                 | 5969 | 4886 | 3803 | /    | /    | 4,73  | 5,18  | 5,28  | 5,38  | /     | /    |

OMNIA M 3.2 Mod. 6 - Prestazioni raffreddamento / Cooling capacity

| Tw_out<br>°C" | DB/WB<br>°C" | Cooling Capacity [W] |      |      |      |      |      | EER   |       |       |       |       |      |
|---------------|--------------|----------------------|------|------|------|------|------|-------|-------|-------|-------|-------|------|
|               |              | 130%                 | 100% | 90%  | 70%  | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%   | 30%  |
| 5             | -5           | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 0            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 5            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 10           | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 15           | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 20           | 5411                 | 4218 | 3855 | 3493 | 2132 | /    | 3.93  | 4.14  | 4.39  | 4.64  | 4.30  | /    |
|               | 25           | 7164                 | 5674 | 5146 | 4618 | 2722 | /    | 3.98  | 4.21  | 4.45  | 4.69  | 4.31  | /    |
|               | 30           | 6502                 | 5229 | 4736 | 4242 | 2484 | /    | 3.51  | 3.74  | 3.95  | 4.15  | 3.81  | /    |
|               | 35           | 6039                 | 4737 | 4070 | 3402 | 2735 | 2067 | 3.06  | 3.22  | 3.24  | 3.27  | 3.29  | 3.31 |
| 7             | 40           | 3803                 | 3105 | 2792 | 2479 | 1402 | 988  | 2.52  | 2.70  | 2.83  | 2.96  | 2.69  | 2.55 |
|               | 43           | 2582                 | 2120 | 1772 | 1423 | 1075 | 726  | 2.24  | 2.33  | 2.34  | 2.36  | 2.37  | 2.38 |
|               | -5           | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 0            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 5            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 10           | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 15           | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 20           | 6103                 | 4836 | 4366 | 3896 | 2248 | /    | 4.27  | 4.54  | 4.82  | 5.09  | 4.72  | /    |
|               | 25           | 7265                 | 5919 | 5063 | 4206 | 3350 | 2493 | 4.07  | 4.34  | 4.38  | 4.42  | 4.46  | 4.50 |
| 10            | 30           | 7145                 | 5822 | 4989 | 4156 | 3322 | 2489 | 3.67  | 3.91  | 3.95  | 3.98  | 4.02  | 4.05 |
|               | 35           | 7108                 | 5800 | 5860 | 4719 | 3579 | 2438 | 2.97  | 3.00  | 3.16  | 3.33  | 3.49  | 3.65 |
|               | 40           | 4505                 | 3737 | 3371 | 3005 | 1727 | 1344 | 2.66  | 2.86  | 3.01  | 3.17  | 2.90  | 3.20 |
|               | 43           | 3236                 | 2579 | 2207 | 1835 | 1462 | 1090 | 2.37  | 2.46  | 2.48  | 2.49  | 2.51  | 2.52 |
|               | -5           | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 0            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 5            | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 10           | /                    | /    | /    | /    | /    | /    | /     | /     | /     | /     | /     | /    |
|               | 15           | 5887                 | 4415 | 3562 | 2708 | /    | /    | 5.33  | 5.65  | 5.82  | 5.99  | /     | /    |
| 15            | 20           | 6626                 | 5358 | 4605 | 3852 | 3099 | 2346 | 4.62  | 4.96  | 5.01  | 5.07  | 5.12  | 5.17 |
|               | 25           | 7365                 | 6047 | 5161 | 4276 | 3390 | 2504 | 4.17  | 4.49  | 4.55  | 4.61  | 4.66  | 4.72 |
|               | 30           | 7292                 | 6076 | 5181 | 4285 | 3390 | 2494 | 3.84  | 4.10  | 4.15  | 4.20  | 4.25  | 4.30 |
|               | 35           | 7219                 | 5927 | 5350 | 4772 | 2750 | /    | 3.55  | 3.83  | 4.07  | 4.31  | 4.00  | /    |
|               | 40           | 5082                 | 4296 | 3882 | 3469 | 2011 | /    | 2.81  | 3.03  | 3.21  | 3.38  | 3.12  | /    |
|               | 43           | 3800                 | 2987 | 2708 | 2429 | 1429 | /    | 2.51  | 2.59  | 2.74  | 2.90  | 2.68  | /    |
|               | -5           | 5269                 | 4243 | 3494 | 2745 | /    | /    | 8.93  | 10.18 | 10.55 | 10.92 | /     | /    |
|               | 0            | 5048                 | 4072 | 3357 | 2642 | /    | /    | 7.28  | 8.48  | 8.74  | 9.00  | /     | /    |
|               | 5            | 4548                 | 3643 | 3362 | 3082 | 1960 | /    | 5.74  | 6.31  | 6.80  | 7.29  | 6.95  | /    |
| 18            | 10           | 6318                 | 5077 | 4709 | 4341 | 2815 | /    | 5.61  | 6.18  | 6.68  | 7.18  | 6.87  | /    |
|               | 15           | 8088                 | 6794 | 6266 | 5739 | 3640 | /    | 5.55  | 5.89  | 6.29  | 6.70  | 6.29  | /    |
|               | 20           | 8159                 | 6801 | 6200 | 5598 | 3378 | /    | 5.47  | 5.88  | 6.27  | 6.66  | 6.23  | /    |
|               | 25           | 8230                 | 6963 | 6302 | 5640 | 3292 | /    | 5.39  | 5.74  | 6.11  | 6.48  | 6.04  | /    |
|               | 30           | 7771                 | 6669 | 6028 | 5386 | 3124 | /    | 4.72  | 5.06  | 5.38  | 5.70  | 5.30  | /    |
|               | 35           | 7311                 | 6024 | 5497 | 4970 | 3012 | /    | 4.35  | 4.67  | 4.99  | 5.31  | 4.99  | /    |
|               | 40           | 5914                 | 5147 | 4683 | 4219 | 2523 | /    | 3.41  | 3.68  | 3.90  | 4.13  | 3.82  | /    |
|               | 43           | 5075                 | 4040 | 3712 | 3383 | 2111 | /    | 3.26  | 3.43  | 3.64  | 3.85  | 3.57  | /    |
|               | -5           | 5905                 | 4764 | 3915 | 3065 | /    | /    | 10.42 | 12.12 | 12.41 | 12.69 | /     | /    |
| 20            | 0            | 5681                 | 4591 | 3777 | 2962 | /    | /    | 8.49  | 10.08 | 10.26 | 10.44 | /     | /    |
|               | 5            | 5174                 | 4132 | 3814 | 3496 | 2224 | /    | 6.73  | 7.56  | 8.09  | 8.62  | 8.12  | /    |
|               | 10           | 6701                 | 5367 | 4978 | 4588 | 2975 | /    | 6.33  | 7.12  | 7.64  | 8.16  | 7.72  | /    |
|               | 15           | 8130                 | 6911 | 6340 | 5768 | 3577 | /    | 6.10  | 6.56  | 7.04  | 7.51  | 7.10  | /    |
|               | 20           | 8278                 | 7013 | 6447 | 5880 | 3678 | /    | 6.05  | 6.50  | 6.92  | 7.33  | 6.83  | /    |
|               | 25           | 8410                 | 7274 | 6635 | 5996 | 3628 | /    | 6.00  | 6.45  | 6.85  | 7.25  | 6.74  | /    |
|               | 30           | 8094                 | 7032 | 6406 | 5779 | 3476 | /    | 5.27  | 5.63  | 5.98  | 6.34  | 5.89  | /    |
|               | 35           | 7649                 | 6500 | 5999 | 5448 | 3355 | /    | 4.73  | 4.80  | 5.34  | 5.79  | 5.62  | /    |
|               | 40           | 6358                 | 5602 | 5130 | 4659 | 2868 | /    | 3.75  | 4.07  | 4.31  | 4.54  | 4.19  | /    |
| 25            | 43           | 5556                 | 4584 | 4199 | 3815 | 2352 | /    | 3.56  | 3.79  | 4.01  | 4.23  | 3.90  | /    |
|               | -5           | 6378                 | 5190 | 4269 | 3348 | /    | /    | 11.53 | 13.72 | 13.99 | 14.26 | /     | /    |
|               | 0            | 6157                 | 5019 | 4133 | 3247 | /    | /    | 9.39  | 11.39 | 11.56 | 11.72 | /     | /    |
|               | 5            | 5657                 | 4539 | 4195 | 3850 | 2461 | /    | 7.48  | 8.61  | 9.19  | 9.77  | 9.16  | /    |
|               | 10           | 6898                 | 5551 | 5155 | 4759 | 3101 | /    | 6.83  | 7.86  | 8.41  | 8.97  | 8.44  | /    |
|               | 15           | 8139                 | 7000 | 6388 | 5775 | 3500 | /    | 6.44  | 7.06  | 7.62  | 8.17  | 7.80  | /    |
|               | 20           | 8331                 | 7170 | 6643 | 6115 | 3949 | /    | 6.42  | 6.94  | 7.39  | 7.84  | 7.32  | /    |
|               | 25           | 8523                 | 7441 | 6845 | 6249 | 3921 | /    | 6.40  | 6.98  | 7.43  | 7.87  | 7.33  | /    |
|               | 30           | 8195                 | 7255 | 6664 | 6073 | 3786 | /    | 5.63  | 6.05  | 6.44  | 6.84  | 6.38  | /    |
| 30            | 35           | 7866                 | 6867 | 6328 | 5789 | 3658 | /    | 4.98  | 5.36  | 5.75  | 6.14  | 5.81  | /    |
|               | 40           | 6627                 | 5947 | 5483 | 5019 | 3179 | /    | 3.95  | 4.34  | 4.60  | 4.86  | 4.50  | /    |
|               | 43           | 5884                 | 5037 | 4609 | 4181 | 2565 | /    | 3.74  | 4.04  | 4.28  | 4.52  | 4.17  | /    |
|               | -5           | 6768                 | 5498 | 4533 | 3567 | /    | /    | 10.62 | 12.96 | 13.07 | 13.17 | /     | /    |
|               | 0            | 6547                 | 5328 | 4397 | 3465 | /    | /    | 8.85  | 11.01 | 11.05 | 11.08 | /     | /    |
|               | 5            | 6047                 | 4907 | 4530 | 4153 | 2643 | /    | 7.20  | 8.49  | 9.01  | 9.53  | 8.84  | /    |
|               | 10           | 7450                 | 6063 | 5624 | 5185 | 3364 | /    | 7.88  | 9.31  | 9.90  | 10.50 | 9.78  | /    |
|               | 15           | 8853                 | 7437 | 6932 | 6427 | 4249 | /    | 8.43  | 9.29  | 10.04 | 10.79 | 10.32 | /    |
|               | 20           | 8984                 | 7821 | 7282 | 6742 | 4438 | /    | 8.15  | 8.98  | 9.57  | 10.16 | 9.50  | /    |
| 35            | 25           | 9115                 | 8049 | 7441 | 6833 | 4375 | /    | 7.90  | 8.85  | 9.41  | 9.97  | 9.28  | /    |
|               | 30           | 8773                 | 7854 | 7250 | 6645 | 4228 | /    | 6.75  | 7.44  | 7.89  | 8.34  | 7.72  | /    |
|               | 35           | 8430                 | 7688 | 7122 | 6556 | 4232 | /    | 5.84  | 6.39  | 6.83  | 7.28  | 6.84  | /    |
|               | 40           | 7878                 | 7147 | 6658 | 6169 | 4070 | /    | 4.80  | 5.41  | 5.71  | 6.01  | 5.51  | /    |
|               | 43           | 7546                 | 5969 | 4886 | 3803 | /    | /    | 4.73  | 5.18  | 5.28  | 5.38  | /     | /    |

# TABELLE PRESTAZIONALI - MODO RAFFREDDAMENTO / CAPACITY TABLES - COOLING MODE

OMNIA M 3.2 Mod. 8 - Prestazioni raffreddamento / Cooling capacity

| *Tw_out<br>°C* | *DB/WB<br>°C* | Cooling Capacity [W] |       |       |       |      |      | EER   |       |       |       |       |      |
|----------------|---------------|----------------------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|------|
|                |               | 130%                 | 100%  | 90%   | 70%   | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%   | 30%  |
| 5              | -5            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 15            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 20            | 5683                 | 4430  | 4049  | 3668  | 2239 | /    | 4,96  | 5,21  | 5,53  | 5,85  | 5,42  | /    |
|                | 25            | 6474                 | 5128  | 4651  | 4173  | 2460 | /    | 4,36  | 4,61  | 4,87  | 5,14  | 4,73  | /    |
|                | 30            | 7266                 | 5844  | 5292  | 4740  | 2775 | /    | 3,85  | 4,10  | 4,33  | 4,56  | 4,19  | /    |
|                | 35            | 7395                 | 5746  | 5173  | 4600  | 2618 | /    | 3,22  | 3,45  | 3,65  | 3,84  | 3,54  | /    |
|                | 40            | 6609                 | 5395  | 4851  | 4308  | 2437 | /    | 2,62  | 2,81  | 2,95  | 3,09  | 2,80  | /    |
|                | 43            | 5092                 | 4181  | 3494  | 2806  | 2119 | 1431 | 2,23  | 2,32  | 2,33  | 2,35  | 2,36  | 2,37 |
| 7              | -5            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 15            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 20            | 6462                 | 5121  | 4623  | 4125  | 2379 | /    | 5,18  | 5,52  | 5,85  | 6,19  | 5,73  | /    |
|                | 25            | 7245                 | 5830  | 5015  | 4200  | 3384 | 2569 | 4,56  | 4,87  | 4,92  | 4,96  | 5,01  | 5,05 |
|                | 30            | 8029                 | 6557  | 5634  | 4711  | 3788 | 2865 | 4,03  | 4,31  | 4,35  | 4,38  | 4,42  | 4,45 |
|                | 35            | 8195                 | 7450  | 6298  | 5196  | 4093 | 2991 | 3,21  | 3,35  | 3,51  | 3,64  | 3,76  | 3,89 |
|                | 40            | 7113                 | 5892  | 5308  | 4724  | 2697 | 1877 | 2,86  | 3,08  | 3,25  | 3,41  | 3,12  | 2,89 |
|                | 43            | 5443                 | 4351  | 3709  | 3068  | 2426 | 1784 | 2,39  | 2,49  | 2,51  | 2,52  | 2,54  | 2,55 |
| 10             | -5            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    |
|                | 15            | 5972                 | 4479  | 3613  | 2747  | /    | /    | 6,84  | 7,24  | 7,47  | 7,69  | /     | /    |
|                | 20            | 7063                 | 5711  | 4908  | 4106  | 3303 | 2500 | 5,46  | 5,86  | 5,93  | 5,99  | 6,06  | 6,12 |
|                | 25            | 7817                 | 6417  | 5477  | 4538  | 3598 | 2658 | 4,81  | 5,17  | 5,24  | 5,30  | 5,37  | 5,43 |
|                | 30            | 8570                 | 7141  | 6089  | 5036  | 3984 | 2931 | 4,25  | 4,54  | 4,60  | 4,65  | 4,71  | 4,76 |
|                | 35            | 8769                 | 7199  | 6498  | 5797  | 3341 | /    | 3,80  | 4,09  | 4,35  | 4,60  | 4,28  | /    |
|                | 40            | 7421                 | 6273  | 5669  | 5065  | 2936 | /    | 3,14  | 3,38  | 3,58  | 3,77  | 3,48  | /    |
|                | 43            | 5643                 | 4436  | 4021  | 3607  | 2122 | /    | 2,58  | 2,67  | 2,83  | 2,99  | 2,76  | /    |
| 15             | -5            | 6387                 | 5143  | 4236  | 3328  | /    | /    | 10,07 | 11,38 | 11,62 | 11,86 | /     | /    |
|                | 0             | 6173                 | 4979  | 4105  | 3230  | /    | /    | 8,69  | 9,94  | 10,16 | 10,38 | /     | /    |
|                | 5             | 5959                 | 4774  | 4406  | 4038  | 2568 | /    | 7,30  | 7,96  | 8,52  | 9,08  | 8,55  | /    |
|                | 10            | 6288                 | 5053  | 4686  | 4320  | 2801 | /    | 8,54  | 9,32  | 10,00 | 10,69 | 10,11 | /    |
|                | 15            | 7334                 | 6161  | 5682  | 5204  | 3300 | /    | 7,38  | 7,83  | 8,37  | 8,91  | 8,37  | /    |
|                | 20            | 8380                 | 6986  | 6368  | 5750  | 3469 | /    | 6,22  | 6,69  | 7,13  | 7,58  | 7,09  | /    |
|                | 25            | 9263                 | 7836  | 7092  | 6348  | 3705 | /    | 5,52  | 5,87  | 6,25  | 6,63  | 6,18  | /    |
|                | 30            | 10145                | 8707  | 7869  | 7032  | 4078 | /    | 4,93  | 5,28  | 5,61  | 5,95  | 5,53  | /    |
|                | 35            | 10214                | 8416  | 7680  | 6943  | 4208 | /    | 4,43  | 4,77  | 5,10  | 5,44  | 5,12  | /    |
|                | 40            | 8883                 | 7730  | 7033  | 6336  | 3790 | /    | 3,51  | 3,79  | 4,02  | 4,25  | 3,93  | /    |
|                | 43            | 6732                 | 5359  | 4924  | 4488  | 2801 | /    | 3,16  | 3,32  | 3,52  | 3,73  | 3,46  | /    |
| 18             | -5            | 7402                 | 5972  | 4908  | 3843  | /    | /    | 10,51 | 12,01 | 12,22 | 12,42 | /     | /    |
|                | 0             | 6808                 | 5501  | 4525  | 3549  | /    | /    | 9,28  | 10,69 | 10,91 | 11,13 | /     | /    |
|                | 5             | 6214                 | 4963  | 4581  | 4198  | 2670 | /    | 8,04  | 8,88  | 9,48  | 10,09 | 9,46  | /    |
|                | 10            | 7199                 | 5767  | 5349  | 4931  | 3198 | /    | 9,05  | 10,00 | 10,71 | 11,41 | 10,75 | /    |
|                | 15            | 8336                 | 7067  | 6475  | 5883  | 3630 | /    | 7,71  | 8,32  | 8,93  | 9,54  | 9,03  | /    |
|                | 20            | 9473                 | 8006  | 7360  | 6714  | 4202 | /    | 6,36  | 6,86  | 7,31  | 7,76  | 7,24  | /    |
|                | 25            | 10401                | 8918  | 8140  | 7362  | 4467 | /    | 5,75  | 6,20  | 6,60  | 6,99  | 6,51  | /    |
|                | 30            | 11329                | 9852  | 8979  | 8106  | 4886 | /    | 5,26  | 5,65  | 6,01  | 6,37  | 5,93  | /    |
|                | 35 *          | 11131                | 8300  | 7847  | 7295  | 4863 | /    | 4,69  | 5,05  | 5,41  | 5,76  | 5,43  | /    |
|                | 40            | 9692                 | 8541  | 7823  | 7104  | 4376 | /    | 3,81  | 4,15  | 4,40  | 4,65  | 4,30  | /    |
|                | 43            | 7546                 | 6230  | 5707  | 5184  | 3196 | /    | 3,48  | 3,71  | 3,93  | 4,15  | 3,84  | /    |
| 20             | -5            | 8213                 | 6683  | 5498  | 4312  | /    | /    | 10,82 | 12,50 | 12,70 | 12,89 | /     | /    |
|                | 0             | 7256                 | 5914  | 4870  | 3826  | /    | /    | 9,76  | 11,31 | 11,55 | 11,79 | /     | /    |
|                | 5             | 6298                 | 5053  | 4670  | 4286  | 2740 | /    | 8,69  | 9,69  | 10,34 | 10,99 | 10,29 | /    |
|                | 10            | 7911                 | 6367  | 5912  | 5458  | 3556 | /    | 9,45  | 10,55 | 11,29 | 12,02 | 11,31 | /    |
|                | 15            | 9108                 | 7833  | 7147  | 6462  | 3916 | /    | 7,94  | 8,70  | 9,39  | 10,08 | 9,62  | /    |
|                | 20            | 10305                | 8868  | 8216  | 7564  | 4885 | /    | 6,43  | 6,95  | 7,40  | 7,85  | 7,33  | /    |
|                | 25            | 11253                | 9823  | 9036  | 8249  | 5176 | /    | 5,92  | 6,46  | 6,87  | 7,28  | 6,78  | /    |
|                | 30            | 12200                | 10801 | 9921  | 9040  | 5636 | /    | 5,54  | 5,94  | 6,33  | 6,72  | 6,28  | /    |
|                | 35            | 11740                | 10249 | 9444  | 8639  | 5459 | /    | 4,89  | 5,26  | 5,64  | 6,03  | 5,70  | /    |
|                | 40            | 10234                | 9183  | 8467  | 7751  | 4909 | /    | 4,07  | 4,47  | 4,74  | 5,01  | 4,64  | /    |
|                | 43            | 8151                 | 6977  | 6385  | 5792  | 3554 | /    | 3,75  | 4,06  | 4,30  | 4,53  | 4,18  | /    |
| 25             | -5            | 8735                 | 7096  | 5850  | 4603  | /    | /    | 12,31 | 14,03 | 14,37 | 14,71 | /     | /    |
|                | 0             | 7756                 | 6312  | 5209  | 4105  | /    | /    | 11,05 | 12,86 | 13,10 | 13,34 | /     | /    |
|                | 5             | 6777                 | 5499  | 5076  | 4654  | 2962 | /    | 9,78  | 10,76 | 11,52 | 12,28 | 11,57 | /    |
|                | 10            | 8300                 | 6755  | 6266  | 5776  | 3747 | /    | 10,53 | 11,60 | 12,45 | 13,30 | 12,59 | /    |
|                | 15            | 9726                 | 8169  | 7615  | 7060  | 4668 | /    | 8,67  | 9,55  | 10,32 | 11,09 | 10,61 | /    |
|                | 20            | 11151                | 9708  | 9039  | 8369  | 5509 | /    | 6,81  | 7,50  | 7,99  | 8,49  | 7,93  | /    |
|                | 25            | 12757                | 11264 | 10413 | 9663  | 6123 | /    | 6,33  | 7,09  | 7,54  | 7,99  | 7,44  | /    |
|                | 30            | 14363                | 12859 | 11870 | 10880 | 6923 | /    | 6,00  | 6,61  | 7,01  | 7,41  | 6,86  | /    |
|                | 35            | 13586                | 12390 | 11478 | 10566 | 6820 | /    | 5,42  | 5,94  | 6,35  | 6,77  | 6,36  | /    |
|                | 40            | 12275                | 11137 | 10375 | 9613  | 6342 | /    | 4,34  | 4,89  | 5,16  | 5,42  | 4,97  | /    |
|                | 43            | 10042                | 7943  | 6602  | 5061  | /    | /    | 4,03  | 4,41  | 4,50  | 4,58  | /     | /    |

OMNIA M 3.2 Mod. 10 - Prestazioni raffreddamento / Cooling capacity

| *Tw_out<br>°C* | *DB/WB<br>°C* | Cooling Capacity [W] |       |       |       |      |      | EER   |       |       |       |       |      |   |
|----------------|---------------|----------------------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|------|---|
|                |               | 130%                 | 100%  | 90%   | 70%   | 50%  | 30%  | 130%  | 100%  | 90%   | 70%   | 50%   | 30%  |   |
| 5              | -5            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 0             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 5             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 10            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 15            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 20            | 6198                 | 4832  | 4416  | 4001  | 2442 | /    | 4,86  | 5,11  | 5,42  | 5,73  | 5,31  | /    | / |
|                | 25            | 7130                 | 5647  | 5121  | 4596  | 2709 | /    | 4,24  | 4,49  | 4,74  | 5,00  | 4,60  | /    | / |
|                | 30            | 8062                 | 6484  | 5872  | 5260  | 3080 | /    | 3,71  | 3,95  | 4,17  | 4,39  | 4,03  | /    | / |
|                | 35            | 8126                 | 6314  | 5685  | 5055  | 2877 | /    | 3,12  | 3,28  | 3,47  | 3,66  | 3,37  | /    | / |
| 40             | 6609          | 5395                 | 4851  | 4308  | 2437  | /    | 2,62 | 2,81  | 2,95  | 3,09  | 2,80  | /     | /    |   |
| 43             | 5092          | 4181                 | 3494  | 2806  | 2119  | 1431 | 2,23 | 2,32  | 2,33  | 2,35  | 2,36  | 2,37  | /    |   |
| 7              | -5            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 0             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 5             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 10            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 15            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 20            | 6722                 | 5356  | 4840  | 4323  | 2504 | /    | 4,98  | 5,31  | 5,63  | 5,96  | 5,52  | /    | / |
|                | 25            | 7728                 | 6253  | 5383  | 4512  | 3642 | 2771 | 4,37  | 4,68  | 4,72  | 4,77  | 4,81  | 4,85 | / |
|                | 30            | 8633                 | 7174  | 6168  | 5162  | 4155 | 3149 | 3,86  | 4,12  | 4,16  | 4,19  | 4,23  | 4,26 | / |
|                | 35            | 8529                 | 8200  | 6965  | 5729  | 4494 | 3258 | 3,21  | 3,25  | 3,42  | 3,53  | 3,65  | 3,76 | / |
| 40             | 7043          | 5869                 | 5290  | 4711  | 2697  | 2388 | 2,86 | 3,08  | 3,25  | 3,41  | 3,12  | 2,98  | /    |   |
| 43             | 5389          | 4334                 | 3697  | 3059  | 2422  | 1784 | 2,39 | 2,49  | 2,51  | 2,52  | 2,54  | 2,55  | /    |   |
| 10             | -5            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 0             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 5             | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 10            | /                    | /     | /     | /     | /    | /    | /     | /     | /     | /     | /     | /    | / |
|                | 15            | 6302                 | 4727  | 3813  | 2899  | /    | /    | 5,89  | 6,24  | 6,43  | 6,62  | /     | /    | / |
|                | 20            | 7193                 | 5816  | 4999  | 4181  | 3364 | 2546 | 5,17  | 5,55  | 5,61  | 5,67  | 5,73  | 5,79 | / |
|                | 25            | 8264                 | 6785  | 5791  | 4798  | 3804 | 2810 | 4,56  | 4,91  | 4,97  | 5,03  | 5,09  | 5,15 | / |
|                | 30            | 9335                 | 7779  | 6633  | 5486  | 4340 | 3193 | 4,05  | 4,32  | 4,37  | 4,43  | 4,48  | 4,53 | / |
|                | 35            | 9482                 | 7785  | 7027  | 6269  | 3613 | /    | 3,72  | 4,01  | 4,26  | 4,51  | 4,19  | /    | / |
| 40             | 7421          | 6273                 | 5669  | 5065  | 2936  | /    | 3,14 | 3,38  | 3,58  | 3,77  | 3,48  | /     | /    |   |
| 43             | 5643          | 4436                 | 4021  | 3607  | 2122  | /    | 2,58 | 2,67  | 2,83  | 2,99  | 2,76  | /     | /    |   |
| 15             | -5            | 6834                 | 5503  | 4532  | 3561  | /    | /    | 9,92  | 11,21 | 11,45 | 11,68 | /     | /    | / |
|                | 0             | 6605                 | 5328  | 4392  | 3456  | /    | /    | 8,56  | 9,79  | 10,01 | 10,23 | /     | /    | / |
|                | 5             | 6376                 | 5108  | 4714  | 4321  | 2748 | /    | 7,19  | 7,84  | 8,39  | 8,94  | 8,42  | /    | / |
|                | 10            | 6545                 | 5259  | 4878  | 4496  | 2916 | /    | 8,73  | 9,53  | 10,23 | 10,92 | 10,33 | /    | / |
|                | 15            | 7607                 | 6389  | 5893  | 5397  | 3423 | /    | 7,35  | 7,80  | 8,34  | 8,87  | 8,33  | /    | / |
|                | 20            | 8668                 | 7226  | 6587  | 5948  | 3589 | /    | 5,97  | 6,42  | 6,85  | 7,28  | 6,81  | /    | / |
|                | 25            | 9872                 | 8352  | 7559  | 6786  | 3949 | /    | 5,24  | 5,58  | 5,94  | 6,30  | 5,88  | /    | / |
|                | 30            | 11076                | 9507  | 8593  | 7678  | 4453 | /    | 4,62  | 4,95  | 5,26  | 5,58  | 5,19  | /    | / |
|                | 35            | 11033                | 9091  | 8296  | 7500  | 4546 | /    | 4,21  | 4,53  | 4,85  | 5,16  | 4,86  | /    | / |
| 40             | 8883          | 7730                 | 7033  | 6336  | 3790  | /    | 3,51 | 3,79  | 4,02  | 4,25  | 3,93  | /     | /    |   |
| 43             | 6732          | 5359                 | 4924  | 4488  | 2801  | /    | 3,16 | 3,32  | 3,52  | 3,73  | 3,46  | /     | /    |   |
| 18             | -5            | 7936                 | 6403  | 5258  | 4112  | /    | /    | 10,35 | 11,83 | 12,04 | 12,24 | /     | /    | / |
|                | 0             | 7299                 | 5898  | 4848  | 3798  | /    | /    | 9,14  | 10,53 | 10,75 | 10,96 | /     | /    | / |
|                | 5             | 6662                 | 5320  | 4909  | 4497  | 2857 | /    | 7,92  | 8,74  | 9,34  | 9,93  | 9,32  | /    | / |
|                | 10            | 7476                 | 5989  | 5553  | 5117  | 3314 | /    | 9,51  | 10,51 | 11,25 | 12,00 | 11,30 | /    | / |
|                | 15            | 8680                 | 7358  | 6740  | 6122  | 3772 | /    | 7,91  | 8,54  | 9,17  | 9,80  | 9,28  | /    | / |
|                | 20            | 9884                 | 8354  | 7678  | 7002  | 4377 | /    | 6,31  | 6,80  | 7,24  | 7,69  | 7,18  | /    | / |
|                | 25            | 11110                | 9526  | 8692  | 7858  | 4762 | /    | 5,55  | 5,99  | 6,37  | 6,75  | 6,28  | /    | / |
|                | 30            | 12335                | 10726 | 9773  | 8819  | 5309 | /    | 4,91  | 5,26  | 5,60  | 5,93  | 5,53  | /    | / |
|                | 35            | 12055                | 9900  | 9195  | 8391  | 5256 | /    | 4,49  | 4,55  | 5,15  | 5,51  | 5,21  | /    | / |
| 40             | 9711          | 8558                 | 7836  | 7114  | 4376  | /    | 3,81 | 4,15  | 4,40  | 4,65  | 4,30  | /     | /    |   |
| 43             | 7561          | 6242                 | 5716  | 5191  | 3196  | /    | 3,48 | 3,71  | 3,93  | 4,15  | 3,84  | /     | /    |   |
| 20             | -5            | 8788                 | 7151  | 5883  | 4614  | /    | /    | 10,66 | 12,31 | 12,50 | 12,69 | /     | /    | / |
|                | 0             | 7763                 | 6328  | 5211  | 4094  | /    | /    | 9,61  | 11,14 | 11,38 | 11,61 | /     | /    | / |
|                | 5             | 6739                 | 5407  | 4966  | 4586  | 2931 | /    | 8,56  | 9,54  | 10,18 | 10,82 | 10,13 | /    | / |
|                | 10            | 8171                 | 6576  | 6106  | 5637  | 3673 | /    | 10,18 | 11,37 | 12,16 | 12,95 | 12,18 | /    | / |
|                | 15            | 9480                 | 8153  | 7439  | 6726  | 4076 | /    | 8,38  | 9,18  | 9,90  | 10,63 | 10,14 | /    | / |
|                | 20            | 10789                | 9285  | 8602  | 7919  | 5114 | /    | 6,57  | 7,10  | 7,56  | 8,02  | 7,49  | /    | / |
|                | 25            | 11998                | 10474 | 9635  | 8796  | 5519 | /    | 5,79  | 6,32  | 6,72  | 7,13  | 6,64  | /    | / |
|                | 30            | 13206                | 11691 | 10738 | 9786  | 6101 | /    | 5,14  | 5,51  | 5,87  | 6,23  | 5,82  | /    | / |
|                | 35            | 12697                | 11084 | 10214 | 9343  | 5904 | /    | 4,73  | 5,09  | 5,46  | 5,84  | 5,52  | /    | / |
| 40             | 10234         | 9183                 | 8467  | 7791  | 4909  | /    | 4,07 | 4,47  | 4,74  | 5,01  | 4,64  | /     | /    |   |
| 43             | 8151          | 6997                 | 6385  | 5752  | 3554  | /    | 3,75 | 4,06  | 4,30  | 4,53  | 4,18  | /     | /    |   |
| 25             | -5            | 9346                 | 7593  | 6260  | 4926  | /    | /    | 12,13 | 13,82 | 14,16 | 14,49 | /     | /    | / |
|                | 0             | 8299                 | 6754  | 5574  | 4393  | /    | /    | 10,88 | 12,66 | 12,90 | 13,14 | /     | /    | / |
|                | 5             | 7251                 | 5884  | 5432  | 4979  | 3169 | /    | 9,63  | 10,60 | 11,35 | 12,10 | 11,40 | /    | / |
|                | 10            | 8796                 | 7159  | 6602  | 6122  | 3971 | /    | 10,22 | 11,26 | 12,09 | 12,91 | 12,22 | /    | / |
|                | 15            | 10641                | 8938  | 8331  | 7725  | 5107 | /    | 8,84  | 9,74  | 10,52 | 11,30 | 10,81 | /    | / |
|                | 20            | 12485                | 10869 | 10120 | 9370  | 6168 | /    | 7,45  | 8,21  | 8,75  | 9,29  | 8,68  | /    | / |
|                | 25            | 13929                | 12299 | 11370 | 10442 | 6686 | /    | 6,42  | 7,18  | 7,64  | 8,10  | 7,54  | /    | / |
|                | 30            | 15372                | 13763 | 12704 | 11645 | 7409 | /    | 5,51  | 6,08  | 6,44  | 6,81  | 6,30  | /    | / |
|                | 35            | 14507                | 13230 | 12256 | 11282 | 7283 | /    | 5,06  | 5,54  | 5,92  | 6,31  | 5,93  | /    | / |
| 40             | 12275         | 11137                | 10375 | 9613  | 6342  | /    | 4,34 | 4,89  | 5,16  | 5,42  | 4,97  | /     | /    |   |
| 43             | 10042         | 7943                 | 6502  | 5013  | /     | /    | 4,03 | 4,41  | 4,50  | 4,58  | /     | /     | /    |   |

# TABELLE PRESTAZIONALI - MODO RAFFREDDAMENTO / CAPACITY TABLES - COOLING MODE

OMNIA M 3.2 Mod. 12 - 12T - Prestazioni raffreddamento / Cooling capacity

| *Tw_out<br>°C* | *DB/WB<br>°C* | Cooling Capacity [W] |       |       |       |      |      | EER  |      |      |      |      |      |
|----------------|---------------|----------------------|-------|-------|-------|------|------|------|------|------|------|------|------|
|                |               | 130%                 | 100%  | 90%   | 70%   | 50%  | 30%  | 130% | 100% | 90%  | 70%  | 50%  | 30%  |
| 5              | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 15            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 20            | 7784                 | 6068  | 5546  | 5024  | 3067 | /    | 3.83 | 4.02 | 4.27 | 4.51 | 4.18 | /    |
|                | 25            | 10101                | 8000  | 7255  | 6511  | 3838 | /    | 3.37 | 3.56 | 3.76 | 3.97 | 3.65 | /    |
|                | 30            | 9994                 | 8038  | 7279  | 6521  | 3818 | /    | 2.79 | 2.97 | 3.14 | 3.30 | 3.03 | /    |
|                | 35            | 9886                 | 7681  | 6915  | 6150  | 3500 | /    | 2.19 | 2.30 | 2.43 | 2.56 | 2.36 | /    |
|                | 40            | 8109                 | 6620  | 5953  | 5286  | 2990 | /    | 1.79 | 1.92 | 2.01 | 2.11 | 1.91 | /    |
|                | 43            | 5196                 | 4266  | 3565  | 2863  | 2162 | 1460 | 1.40 | 1.45 | 1.46 | 1.47 | 1.47 | 1.48 |
| 7              | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 15            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 20            | 10088                | 8011  | 7226  | 6441  | 3699 | /    | 3.94 | 4.23 | 4.49 | 4.74 | 4.39 | /    |
|                | 25            | 12092                | 9741  | 8376  | 7012  | 5647 | 4282 | 3.57 | 3.85 | 3.89 | 3.92 | 3.96 | 3.99 |
|                | 30            | 11876                | 9692  | 8325  | 6957  | 5590 | 4222 | 3.00 | 3.23 | 3.26 | 3.29 | 3.31 | 3.34 |
|                | 35            | 11813                | 11500 | 9764  | 7928  | 6092 | 4256 | 2.70 | 2.75 | 2.77 | 2.79 | 2.81 | 2.83 |
|                | 40            | 9099                 | 7543  | 6798  | 6053  | 3462 | /    | 2.02 | 2.20 | 2.32 | 2.43 | 2.22 | /    |
|                | 43            | 5720                 | 4569  | 3898  | 3228  | 2557 | 1886 | 1.63 | 1.70 | 1.71 | 1.73 | 1.74 | 1.75 |
| 10             | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /    | /    | /    |
|                | 15            | 10509                | 7882  | 6358  | 4834  | /    | /    | 4.53 | 4.86 | 5.01 | 5.16 | /    | /    |
|                | 20            | 12153                | 9827  | 8446  | 7065  | 5683 | 4302 | 4.10 | 4.46 | 4.51 | 4.56 | 4.60 | 4.65 |
|                | 25            | 13797                | 11327 | 9668  | 8009  | 6350 | 4691 | 3.82 | 4.17 | 4.22 | 4.28 | 4.33 | 4.38 |
|                | 30            | 13431                | 11192 | 9542  | 7893  | 6243 | 4593 | 3.25 | 3.52 | 3.56 | 3.60 | 3.64 | 3.68 |
|                | 35            | 13065                | 10726 | 9682  | 8637  | 4978 | /    | 2.67 | 2.91 | 3.09 | 3.27 | 3.04 | /    |
|                | 40            | 9873                 | 8346  | 7543  | 6739  | 3907 | /    | 2.28 | 2.49 | 2.63 | 2.78 | 2.56 | /    |
|                | 43            | 6108                 | 4800  | 4351  | 3903  | 2296 | /    | 1.87 | 1.97 | 2.09 | 2.20 | 2.03 | /    |
| 15             | -5            | 9550                 | 7690  | 6333  | 4976  | /    | /    | 7.50 | 8.47 | 8.65 | 8.83 | /    | /    |
|                | 0             | 9333                 | 7528  | 6206  | 4884  | /    | /    | 5.93 | 6.78 | 6.94 | 7.09 | /    | /    |
|                | 5             | 9115                 | 7302  | 6740  | 6177  | 3929 | /    | 5.32 | 5.80 | 6.21 | 6.62 | 6.23 | /    |
|                | 10            | 10808                | 8684  | 8054  | 7424  | 4815 | /    | 5.27 | 5.75 | 6.17 | 6.59 | 6.24 | /    |
|                | 15            | 12500                | 10500 | 9684  | 8869  | 5625 | /    | 5.36 | 5.82 | 6.22 | 6.62 | 6.22 | /    |
|                | 20            | 14162                | 11805 | 10761 | 9717  | 5863 | /    | 4.54 | 4.99 | 5.32 | 5.65 | 5.29 | /    |
|                | 25            | 15824                | 13387 | 12116 | 10844 | 6330 | /    | 4.04 | 4.41 | 4.69 | 4.98 | 4.64 | /    |
|                | 30            | 15177                | 13026 | 11773 | 10520 | 6101 | /    | 3.64 | 3.99 | 4.24 | 4.49 | 4.17 | /    |
|                | 35            | 14529                | 11972 | 10924 | 9877  | 5986 | /    | 3.39 | 3.65 | 3.90 | 4.15 | 3.90 | /    |
|                | 40            | 10665                | 9282  | 8445  | 7608  | 4551 | /    | 2.72 | 3.00 | 3.18 | 3.36 | 3.11 | /    |
|                | 43            | 7328                 | 5833  | 5359  | 4885  | 3048 | /    | 2.43 | 2.61 | 2.77 | 2.93 | 2.72 | /    |
| 18             | -5            | 10050                | 8113  | 6670  | 5226  | /    | /    | 7.48 | 8.54 | 8.69 | 8.84 | /    | /    |
|                | 0             | 10198                | 8248  | 6788  | 5327  | /    | /    | 6.66 | 7.68 | 7.84 | 8.00 | /    | /    |
|                | 5             | 10346                | 8270  | 7634  | 6999  | 4455 | /    | 6.33 | 6.99 | 7.47 | 7.94 | 7.45 | /    |
|                | 10            | 12069                | 9677  | 8977  | 8276  | 5371 | /    | 6.10 | 6.74 | 7.22 | 7.69 | 7.25 | /    |
|                | 15            | 13792                | 11700 | 10723 | 9746  | 6020 | /    | 6.00 | 6.63 | 7.12 | 7.60 | 7.19 | /    |
|                | 20            | 15168                | 12822 | 11785 | 10749 | 6721 | /    | 4.84 | 5.33 | 5.68 | 6.02 | 5.62 | /    |
|                | 25            | 16544                | 14185 | 12943 | 11701 | 7089 | /    | 4.17 | 4.60 | 4.89 | 5.18 | 4.82 | /    |
|                | 30            | 15798                | 13739 | 12517 | 11296 | 6799 | /    | 3.79 | 4.16 | 4.42 | 4.69 | 4.36 | /    |
|                | 35 *          | 15053                | 12000 | 11107 | 10215 | 6572 | /    | 3.57 | 3.95 | 4.26 | 4.52 | 4.21 | /    |
|                | 40            | 11518                | 10160 | 9306  | 8453  | 5209 | /    | 2.88 | 3.21 | 3.40 | 3.59 | 3.32 | /    |
|                | 43            | 7991                 | 6599  | 6046  | 5494  | 3390 | /    | 2.57 | 2.80 | 2.96 | 3.13 | 2.89 | /    |
| 20             | -5            | 10391                | 8456  | 6956  | 5455  | /    | /    | 7.37 | 8.51 | 8.65 | 8.78 | /    | /    |
|                | 0             | 10902                | 8886  | 7317  | 5748  | /    | /    | 7.32 | 8.48 | 8.66 | 8.84 | /    | /    |
|                | 5             | 11412                | 9156  | 8461  | 7766  | 4964 | /    | 7.27 | 8.10 | 8.65 | 9.19 | 8.61 | /    |
|                | 10            | 13139                | 10574 | 9819  | 9064  | 5906 | /    | 6.85 | 7.65 | 8.18 | 8.72 | 8.20 | /    |
|                | 15            | 14865                | 12784 | 11665 | 10547 | 6392 | /    | 6.56 | 7.36 | 7.93 | 8.51 | 8.11 | /    |
|                | 20            | 15933                | 13712 | 12704 | 11695 | 7552 | /    | 5.08 | 5.61 | 5.98 | 6.34 | 5.92 | /    |
|                | 25            | 17001                | 14842 | 13653 | 12464 | 7820 | /    | 4.24 | 4.73 | 5.03 | 5.33 | 4.96 | /    |
|                | 30            | 16170                | 14315 | 13148 | 11982 | 7470 | /    | 3.90 | 4.28 | 4.56 | 4.83 | 4.51 | /    |
|                | 35            | 15338                | 13390 | 12339 | 11287 | 7132 | /    | 3.71 | 3.96 | 4.21 | 4.47 | 4.16 | /    |
|                | 40            | 12188                | 10936 | 10083 | 9231  | 5847 | /    | 3.01 | 3.38 | 3.58 | 3.78 | 3.50 | /    |
|                | 43            | 8528                 | 7300  | 6680  | 6060  | 3718 | /    | 2.67 | 2.96 | 3.13 | 3.30 | 3.04 | /    |
| 25             | -5            | 11389                | 9252  | 7627  | 6002  | /    | /    | 8.35 | 9.52 | 9.75 | 9.98 | /    | /    |
|                | 0             | 11887                | 9673  | 7983  | 6292  | /    | /    | 7.92 | 9.22 | 9.39 | 9.56 | /    | /    |
|                | 5             | 12384                | 10048 | 9276  | 8503  | 5412 | /    | 7.57 | 8.32 | 8.91 | 9.50 | 8.95 | /    |
|                | 10            | 14184                | 11543 | 10707 | 9871  | 6404 | /    | 7.32 | 8.07 | 8.66 | 9.25 | 8.75 | /    |
|                | 15            | 15983                | 13426 | 12515 | 11604 | 7672 | /    | 7.14 | 8.05 | 8.69 | 9.33 | 8.92 | /    |
|                | 20            | 16527                | 14388 | 13396 | 12404 | 8164 | /    | 5.82 | 6.56 | 6.99 | 7.42 | 6.93 | /    |
|                | 25            | 17071                | 15074 | 13936 | 12797 | 8194 | /    | 4.96 | 5.68 | 6.04 | 6.40 | 5.95 | /    |
|                | 30            | 16113                | 14426 | 13316 | 12206 | 7766 | /    | 4.31 | 4.86 | 5.15 | 5.45 | 5.04 | /    |
|                | 35            | 15255                | 13913 | 12889 | 11864 | 7658 | /    | 3.95 | 4.37 | 4.67 | 4.96 | 4.65 | /    |
|                | 40            | 13228                | 12002 | 11181 | 10360 | 6835 | /    | 3.51 | 4.05 | 4.27 | 4.49 | 4.12 | /    |
|                | 43            | 10675                | 8444  | 6912  | 5380  | /    | /    | 3.27 | 3.66 | 3.73 | 3.80 | /    | /    |

OMNIA M 3.2 Mod. 14 - 14T - Prestazioni raffreddamento / Cooling capacity

| *Tw_out<br>°C* | *DB/WB<br>°C* | Cooling Capacity [W] |       |       |       |      |      | EER  |      |      |       |      |      |
|----------------|---------------|----------------------|-------|-------|-------|------|------|------|------|------|-------|------|------|
|                |               | 130%                 | 100%  | 90%   | 70%   | 50%  | 30%  | 130% | 100% | 90%  | 70%   | 50%  | 30%  |
| 5              | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 15            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 20            | 8173                 | 6372  | 5824  | 5276  | 3220 | /    | 3.77 | 3.96 | 4.20 | 4.44  | 4.12 | /    |
|                | 25            | 10606                | 8400  | 7618  | 6837  | 4030 | /    | 3.32 | 3.52 | 3.72 | 3.92  | 3.60 | /    |
|                | 30            | 10493                | 8440  | 7643  | 6846  | 4008 | /    | 2.65 | 2.82 | 2.98 | 3.14  | 2.88 | /    |
|                | 35            | 10380                | 8065  | 7261  | 6457  | 3675 | /    | 2.16 | 2.27 | 2.40 | 2.53  | 2.33 | /    |
| 40             | 8109          | 6620                 | 5953  | 5286  | 2990  | /    | 1.79 | 1.92 | 2.01 | 2.11 | 1.91  | /    |      |
| 43             | 5196          | 4266                 | 3565  | 2863  | 2162  | 1460 | 1.40 | 1.45 | 1.46 | 1.47 | 1.47  | 1.48 |      |
| 7              | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 15            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 20            | 10802                | 8579  | 7725  | 6872  | 3915 | /    | 3.88 | 4.16 | 4.41 | 4.66  | 4.32 | /    |
|                | 25            | 12948                | 10431 | 8956  | 7482  | 6007 | 4532 | 3.53 | 3.80 | 3.84 | 3.87  | 3.91 | 3.94 |
|                | 30            | 12791                | 10378 | 8901  | 7424  | 5946 | 4469 | 2.86 | 3.08 | 3.11 | 3.13  | 3.16 | 3.18 |
|                | 35            | 12835                | 12400 | 10651 | 8602  | 6553 | 4504 | 2.35 | 2.50 | 2.58 | 2.62  | 2.65 | 2.68 |
| 40             | 9279          | 7692                 | 6921  | 6150  | 3490  | /    | 2.02 | 2.20 | 2.32 | 2.43 | 2.22  | /    |      |
| 43             | 5833          | 4660                 | 3970  | 3281  | 2591  | 1901 | 1.63 | 1.70 | 1.71 | 1.73 | 1.74  | 1.75 |      |
| 10             | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 15            | 10982                | 8236  | 6644  | 5052  | /    | /    | 4.60 | 4.94 | 5.09 | 5.24  | /    | /    |
|                | 20            | 12761                | 10318 | 8868  | 7418  | 5967 | 4517 | 4.04 | 4.40 | 4.45 | 4.49  | 4.54 | 4.58 |
|                | 25            | 14487                | 11894 | 10152 | 8410  | 6668 | 4926 | 3.77 | 4.12 | 4.17 | 4.22  | 4.27 | 4.32 |
|                | 30            | 14103                | 11752 | 10020 | 8288  | 6555 | 4823 | 3.11 | 3.37 | 3.41 | 3.45  | 3.49 | 3.53 |
|                | 35            | 13718                | 11263 | 10166 | 9070  | 5227 | /    | 2.58 | 2.81 | 2.99 | 3.16  | 2.94 | /    |
| 40             | 9873          | 8346                 | 7543  | 6739  | 3907  | /    | 2.28 | 2.49 | 2.63 | 2.78 | 2.56  | /    |      |
| 43             | 6108          | 4800                 | 4351  | 3903  | 2296  | /    | 1.87 | 1.97 | 2.09 | 2.20 | 2.03  | /    |      |
| 15             | -5            | 10028                | 8704  | 6649  | 5224  | /    | /    | 7.57 | 8.56 | 8.74 | 8.92  | /    | /    |
|                | 0             | 9799                 | 7904  | 6516  | 5128  | /    | /    | 5.87 | 6.71 | 6.86 | 7.01  | /    | /    |
|                | 5             | 9571                 | 7667  | 7076  | 6486  | 4125 | /    | 5.44 | 5.93 | 6.35 | 6.77  | 6.37 | /    |
|                | 10            | 11348                | 9119  | 8457  | 7796  | 5055 | /    | 5.21 | 5.69 | 6.10 | 6.52  | 6.16 | /    |
|                | 15            | 13063                | 10973 | 10121 | 9268  | 5878 | /    | 5.45 | 5.92 | 6.33 | 6.73  | 6.32 | /    |
|                | 20            | 14870                | 12396 | 11300 | 10204 | 6156 | /    | 4.47 | 4.92 | 5.25 | 5.57  | 5.21 | /    |
|                | 25            | 16615                | 14066 | 12721 | 11386 | 6646 | /    | 3.99 | 4.35 | 4.63 | 4.91  | 4.58 | /    |
|                | 30            | 15935                | 13677 | 12361 | 11046 | 6406 | /    | 3.49 | 3.83 | 4.07 | 4.31  | 4.01 | /    |
|                | 35            | 15255                | 12570 | 11470 | 10370 | 6285 | /    | 3.13 | 3.45 | 3.69 | 3.93  | 3.69 | /    |
| 40             | 10665         | 9282                 | 8445  | 7608  | 4551  | /    | 2.72 | 3.00 | 3.18 | 3.36 | 3.11  | /    |      |
| 43             | 7328          | 5833                 | 5359  | 4885  | 3048  | /    | 2.43 | 2.61 | 2.77 | 2.93 | 2.72  | /    |      |
| 18             | -5            | 10553                | 8519  | 7003  | 5487  | /    | /    | 7.55 | 8.63 | 8.78 | 8.93  | /    | /    |
|                | 0             | 10708                | 8660  | 7127  | 5593  | /    | /    | 6.59 | 7.60 | 7.76 | 7.92  | /    | /    |
|                | 5             | 10863                | 8684  | 8017  | 7349  | 4678 | /    | 6.47 | 7.15 | 7.63 | 8.12  | 7.61 | /    |
|                | 10            | 12341                | 9895  | 9179  | 8463  | 5492 | /    | 6.07 | 6.71 | 7.18 | 7.66  | 7.21 | /    |
|                | 15            | 14413                | 12227 | 11206 | 10185 | 6291 | /    | 6.10 | 6.74 | 7.23 | 7.73  | 7.31 | /    |
|                | 20            | 15525                | 13119 | 12056 | 10993 | 6868 | /    | 4.80 | 5.30 | 5.64 | 5.98  | 5.58 | /    |
|                | 25            | 16943                | 14521 | 13247 | 11973 | 7248 | /    | 4.14 | 4.57 | 4.86 | 5.15  | 4.79 | /    |
|                | 30            | 16181                | 14066 | 12813 | 11560 | 6952 | /    | 3.70 | 4.06 | 4.32 | 4.58  | 4.26 | /    |
|                | 35            | 15419                | 12900 | 12311 | 11122 | 6722 | /    | 3.31 | 3.70 | 3.95 | 4.30  | 4.21 | /    |
| 40             | 11518         | 10160                | 9306  | 8453  | 5209  | /    | 2.88 | 3.21 | 3.40 | 3.59 | 3.32  | /    |      |
| 43             | 7991          | 6599                 | 6046  | 5494  | 3390  | /    | 2.57 | 2.80 | 2.96 | 3.13 | 2.89  | /    |      |
| 20             | -5            | 10911                | 8878  | 7303  | 5728  | /    | /    | 7.44 | 8.60 | 8.73 | 8.86  | /    | /    |
|                | 0             | 11447                | 9331  | 7684  | 6036  | /    | /    | 7.24 | 8.39 | 8.57 | 8.75  | /    | /    |
|                | 5             | 11983                | 9614  | 8884  | 8154  | 5212 | /    | 7.43 | 8.28 | 8.84 | 9.39  | 8.80 | /    |
|                | 10            | 13139                | 10574 | 9819  | 9064  | 5906 | /    | 6.85 | 7.65 | 8.18 | 8.72  | 8.20 | /    |
|                | 15            | 15534                | 13359 | 12190 | 11021 | 6680 | /    | 6.67 | 7.48 | 8.07 | 8.65  | 8.25 | /    |
|                | 20            | 15933                | 13712 | 12704 | 11695 | 7552 | /    | 5.08 | 5.61 | 5.98 | 6.34  | 5.92 | /    |
|                | 25            | 17001                | 14842 | 13653 | 12464 | 7820 | /    | 4.24 | 4.73 | 5.03 | 5.33  | 4.96 | /    |
|                | 30            | 16170                | 14315 | 13148 | 11982 | 7470 | /    | 3.87 | 4.25 | 4.53 | 4.80  | 4.48 | /    |
|                | 35            | 15338                | 13390 | 12339 | 11287 | 7132 | /    | 3.45 | 3.80 | 4.08 | 4.35  | 4.11 | /    |
| 40             | 12188         | 10936                | 10083 | 9231  | 5847  | /    | 3.01 | 3.38 | 3.58 | 3.78 | 3.50  | /    |      |
| 43             | 8528          | 7300                 | 6680  | 6030  | 3718  | /    | 2.67 | 2.96 | 3.13 | 3.30 | 3.04  | /    |      |
| 25             | -5            | 11958                | 9715  | 8009  | 6302  | /    | /    | 8.43 | 9.61 | 9.85 | 10.08 | /    | /    |
|                | 0             | 12481                | 10157 | 8382  | 6606  | /    | /    | 7.84 | 9.13 | 9.30 | 9.47  | /    | /    |
|                | 5             | 13003                | 10551 | 9740  | 8928  | 5682 | /    | 7.73 | 8.50 | 9.10 | 9.71  | 9.15 | /    |
|                | 10            | 14184                | 11543 | 10707 | 9871  | 6404 | /    | 7.32 | 8.07 | 8.66 | 9.25  | 8.75 | /    |
|                | 15            | 16383                | 13761 | 12827 | 11894 | 7864 | /    | 7.26 | 8.19 | 8.84 | 9.49  | 9.07 | /    |
|                | 20            | 16527                | 14388 | 13396 | 12404 | 8164 | /    | 5.82 | 6.56 | 6.99 | 7.42  | 6.93 | /    |
|                | 25            | 17071                | 15074 | 13936 | 12797 | 8194 | /    | 4.96 | 5.68 | 6.04 | 6.40  | 5.95 | /    |
|                | 30            | 16113                | 14426 | 13316 | 12206 | 7766 | /    | 4.31 | 4.86 | 5.15 | 5.45  | 5.04 | /    |
|                | 35            | 15255                | 13913 | 12889 | 11864 | 7658 | /    | 3.71 | 4.15 | 4.44 | 4.72  | 4.44 | /    |
| 40             | 13228         | 12002                | 11181 | 10360 | 6835  | /    | 3.51 | 4.05 | 4.27 | 4.49 | 4.12  | /    |      |
| 43             | 10675         | 8444                 | 6912  | 5380  | /     | /    | 3.27 | 3.66 | 3.73 | 3.80 | /     | /    |      |

# TABELLE PRESTAZIONALI - MODO RAFFREDDAMENTO / CAPACITY TABLES - COOLING MODE

OMNIA M 3.2 Mod. 16 - 16T - Prestazioni raffreddamento / Cooling capacity

| *Tw_out<br>°C* | °DB/WB<br>°C* | Cooling Capacity [W] |       |       |       |      |      | EER  |      |      |       |      |      |
|----------------|---------------|----------------------|-------|-------|-------|------|------|------|------|------|-------|------|------|
|                |               | 130%                 | 100%  | 90%   | 70%   | 50%  | 30%  | 130% | 100% | 90%  | 70%   | 50%  | 30%  |
| 5              | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 15            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 20            | 8991                 | 7009  | 6406  | 5803  | 3542 | /    | 3,70 | 3,88 | 4,12 | 4,36  | 4,04 | /    |
|                | 25            | 11667                | 9240  | 8380  | 7520  | 4433 | /    | 3,25 | 3,43 | 3,63 | 3,82  | 3,52 | /    |
|                | 30            | 11542                | 9284  | 8408  | 7531  | 4409 | /    | 2,59 | 2,75 | 2,90 | 3,06  | 2,81 | /    |
|                | 35            | 11418                | 8872  | 7987  | 7103  | 4042 | /    | 2,11 | 2,21 | 2,34 | 2,46  | 2,27 | /    |
|                | 40            | 8920                 | 7282  | 6548  | 5814  | 3289 | /    | 1,75 | 1,87 | 1,96 | 2,05  | 1,86 | /    |
|                | 43            | 5975                 | 4906  | 4099  | 3293  | 2486 | 1679 | 1,33 | 1,38 | 1,39 | 1,40  | 1,40 | 1,41 |
| 7              | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 15            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 20            | 11882                | 9437  | 8498  | 7559  | 4307 | /    | 3,80 | 4,08 | 4,33 | 4,58  | 4,24 | /    |
|                | 25            | 14243                | 11474 | 9852  | 8230  | 6607 | 4985 | 3,45 | 3,71 | 3,75 | 3,78  | 3,82 | 3,85 |
|                | 30            | 14261                | 11416 | 9791  | 8166  | 6541 | 4916 | 2,79 | 3,01 | 3,04 | 3,06  | 3,09 | 3,11 |
|                | 35            | 14178                | 14000 | 11739 | 9477  | 7216 | 4954 | 2,30 | 2,50 | 2,48 | 2,51  | 2,53 | 2,56 |
|                | 40            | 10207                | 8461  | 7613  | 6765  | 3839 | 3198 | 1,97 | 2,14 | 2,26 | 2,37  | 2,17 | 2,04 |
|                | 43            | 6865                 | 5482  | 4673  | 3863  | 3054 | 2244 | 1,54 | 1,62 | 1,63 | 1,64  | 1,65 | 1,66 |
| 10             | -5            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 0             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 5             | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 10            | /                    | /     | /     | /     | /    | /    | /    | /    | /    | /     | /    | /    |
|                | 15            | 11366                | 8525  | 6877  | 5228  | /    | /    | 4,67 | 5,02 | 5,17 | 5,32  | /    | /    |
|                | 20            | 14037                | 11350 | 9755  | 8160  | 6564 | 4969 | 3,96 | 4,31 | 4,36 | 4,40  | 4,45 | 4,49 |
|                | 25            | 15936                | 13083 | 11167 | 9251  | 7334 | 5418 | 3,69 | 4,02 | 4,07 | 4,12  | 4,17 | 4,22 |
|                | 30            | 15513                | 12927 | 11022 | 9116  | 7211 | 5305 | 3,04 | 3,29 | 3,33 | 3,37  | 3,40 | 3,44 |
|                | 35            | 15090                | 12389 | 11182 | 9976  | 5749 | /    | 2,52 | 2,75 | 2,92 | 3,09  | 2,87 | /    |
|                | 40            | 10860                | 9180  | 8296  | 7412  | 4297 | /    | 2,22 | 2,43 | 2,57 | 2,71  | 2,50 | /    |
|                | 43            | 7329                 | 5761  | 5223  | 4684  | 2756 | /    | 1,78 | 1,87 | 1,98 | 2,09  | 1,93 | /    |
| 15             | -5            | 10028                | 8074  | 6649  | 5224  | /    | /    | 7,57 | 8,56 | 8,74 | 8,92  | /    | /    |
|                | 0             | 9799                 | 7904  | 6516  | 5128  | /    | /    | 5,87 | 6,71 | 6,86 | 7,01  | /    | /    |
|                | 5             | 9571                 | 7667  | 7076  | 6486  | 4125 | /    | 5,44 | 5,93 | 6,35 | 6,77  | 6,37 | /    |
|                | 10            | 11348                | 9119  | 8457  | 7796  | 5055 | /    | 5,21 | 5,69 | 6,10 | 6,52  | 6,16 | /    |
|                | 15            | 13520                | 11357 | 10475 | 9593  | 6084 | /    | 5,53 | 6,01 | 6,42 | 6,83  | 6,41 | /    |
|                | 20            | 15762                | 13139 | 11977 | 10816 | 6526 | /    | 4,42 | 4,87 | 5,19 | 5,51  | 5,15 | /    |
|                | 25            | 17446                | 14759 | 13357 | 11955 | 6978 | /    | 3,90 | 4,25 | 4,52 | 4,80  | 4,47 | /    |
|                | 30            | 17210                | 14771 | 13350 | 11929 | 6918 | /    | 3,41 | 3,74 | 3,97 | 4,21  | 3,91 | /    |
|                | 35            | 16476                | 13576 | 12388 | 11200 | 6788 | /    | 2,94 | 3,24 | 3,47 | 3,69  | 3,47 | /    |
|                | 40            | 11732                | 10210 | 9289  | 8369  | 5006 | /    | 2,65 | 2,93 | 3,10 | 3,28  | 3,03 | /    |
|                | 43            | 9013                 | 7174  | 6591  | 6008  | 3749 | /    | 2,31 | 2,48 | 2,63 | 2,78  | 2,58 | /    |
| 18             | -5            | 10553                | 8519  | 7003  | 5487  | /    | /    | 7,55 | 8,63 | 8,78 | 8,93  | /    | /    |
|                | 0             | 10708                | 8660  | 7127  | 5593  | /    | /    | 6,59 | 7,60 | 7,76 | 7,92  | /    | /    |
|                | 5             | 10863                | 8684  | 8017  | 7349  | 4678 | /    | 6,47 | 7,15 | 7,63 | 8,12  | 7,61 | /    |
|                | 10            | 12341                | 9895  | 9179  | 8463  | 5492 | /    | 6,07 | 6,71 | 7,18 | 7,66  | 7,21 | /    |
|                | 15            | 14917                | 12655 | 11598 | 10542 | 6512 | /    | 6,19 | 6,84 | 7,34 | 7,84  | 7,42 | /    |
|                | 20            | 16456                | 13906 | 12779 | 11652 | 7280 | /    | 4,75 | 5,24 | 5,58 | 5,92  | 5,53 | /    |
|                | 25            | 17719                | 15247 | 13909 | 12571 | 7610 | /    | 4,04 | 4,46 | 4,74 | 5,03  | 4,68 | /    |
|                | 30            | 17244                | 15047 | 13706 | 12364 | 7433 | /    | 3,57 | 3,91 | 4,16 | 4,41  | 4,10 | /    |
|                | 35 *          | 16498                | 13600 | 13524 | 12148 | 7188 | /    | 3,13 | 3,61 | 3,65 | 3,91  | 3,70 | /    |
|                | 40            | 12670                | 11176 | 10237 | 9298  | 5730 | /    | 2,77 | 3,09 | 3,27 | 3,45  | 3,19 | /    |
|                | 43            | 9829                 | 8117  | 7437  | 6758  | 4170 | /    | 2,44 | 2,66 | 2,82 | 2,98  | 2,75 | /    |
| 20             | -5            | 10911                | 8878  | 7303  | 5728  | /    | /    | 7,44 | 8,60 | 8,73 | 8,86  | /    | /    |
|                | 0             | 11447                | 9331  | 7684  | 6036  | /    | /    | 7,24 | 8,39 | 8,57 | 8,75  | /    | /    |
|                | 5             | 11983                | 9614  | 8884  | 8154  | 5212 | /    | 7,43 | 8,28 | 8,84 | 9,39  | 8,80 | /    |
|                | 10            | 13139                | 10574 | 9819  | 9064  | 5906 | /    | 6,85 | 7,65 | 8,18 | 8,72  | 8,20 | /    |
|                | 15            | 16078                | 13827 | 12617 | 11407 | 6913 | /    | 6,77 | 7,59 | 8,18 | 8,78  | 8,37 | /    |
|                | 20            | 16889                | 14535 | 13466 | 12397 | 8005 | /    | 5,03 | 5,56 | 5,92 | 6,28  | 5,86 | /    |
|                | 25            | 17851                | 15584 | 14336 | 13087 | 8211 | /    | 4,14 | 4,62 | 4,91 | 5,21  | 4,85 | /    |
|                | 30            | 17140                | 15174 | 13938 | 12701 | 7919 | /    | 3,68 | 4,04 | 4,30 | 4,57  | 4,26 | /    |
|                | 35            | 16258                | 14193 | 13079 | 11964 | 7560 | /    | 3,27 | 3,60 | 3,86 | 4,13  | 3,90 | /    |
|                | 40            | 13407                | 12030 | 11092 | 10154 | 6431 | /    | 2,86 | 3,21 | 3,40 | 3,60  | 3,33 | /    |
|                | 43            | 10489                | 8978  | 8216  | 7453  | 4573 | /    | 2,54 | 2,81 | 2,97 | 3,14  | 2,89 | /    |
| 25             | -5            | 11958                | 9715  | 8009  | 6302  | /    | /    | 8,43 | 9,61 | 9,85 | 10,08 | /    | /    |
|                | 0             | 12481                | 10157 | 8382  | 6606  | /    | /    | 7,84 | 9,13 | 9,30 | 9,47  | /    | /    |
|                | 5             | 13003                | 10551 | 9740  | 8928  | 5682 | /    | 7,73 | 8,50 | 9,10 | 9,71  | 9,15 | /    |
|                | 10            | 14184                | 11543 | 10707 | 9871  | 6404 | /    | 7,32 | 8,07 | 8,66 | 9,25  | 8,75 | /    |
|                | 15            | 16956                | 14243 | 13277 | 12310 | 8139 | /    | 7,37 | 8,31 | 8,97 | 9,64  | 9,21 | /    |
|                | 20            | 17519                | 15252 | 14200 | 13148 | 8654 | /    | 5,76 | 6,49 | 6,92 | 7,34  | 6,86 | /    |
|                | 25            | 17925                | 15827 | 14632 | 13437 | 8604 | /    | 4,84 | 5,55 | 5,90 | 6,25  | 5,81 | /    |
|                | 30            | 16919                | 15147 | 13982 | 12816 | 8155 | /    | 4,21 | 4,75 | 5,03 | 5,32  | 4,92 | /    |
|                | 35            | 16170                | 14747 | 13661 | 12575 | 8117 | /    | 3,62 | 4,05 | 4,33 | 4,61  | 4,33 | /    |
|                | 40            | 14551                | 13202 | 12299 | 11396 | 7518 | /    | 3,34 | 3,84 | 4,05 | 4,26  | 3,91 | /    |
|                | 43            | 11956                | 9457  | 7742  | 6026  | /    | /    | 3,11 | 3,48 | 3,55 | 3,61  | /    | /    |

\* : Performance values useful for accessing the incentives provided in Italy / Valori prestazionali utili per accedere agli incentivi previsti in Italia







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