



**DICHIARAZIONE DI CONFORMITÀ UE**  
**EU DECLARATION OF CONFORMITY**  
**DECLARACIÓN DE CONFORMIDAD DE LA UE**

Nome e indirizzo della società: Ferroli S.p.A.  
Company Name and Address: Via Ritonda 78/A  
Nombre y dirección de la empresa: IT – 37047 San Bonifacio (VR) Italy  
Tel.: +39 045 6139411  
Email: info@ferroli.com

La dichiarazione di conformità è rilasciata sotto la sola responsabilità di Ferroli S.p.A.  
The declaration of conformity is issued under the sole responsibility of Ferroli S.p.A.  
La declaración de conformidad se emite bajo la exclusiva responsabilidad de Ferroli S.p.A.

Tipo di apparecchio: Unità interna a muro per pompe di calore reversibili split con compressore DC inverter  
Appliance type: Wall-hung indoor units for reversible split heat pumps with DC inverter compressor  
Tipo de aparato: Unidad interna de pared para bombas de calor reversibles split con compressor DC inverter  
Marchio:  
Trademark: FERROLI  
Marca comercial:

**Prodotti / Identification of products / Identificación de los productos:**

| SYSTEM             | OUTDOOR UNIT    | INDOOR UNIT           |
|--------------------|-----------------|-----------------------|
| OMNIA S 3.2 HI3 4  | OMNIA UE 3.2 4  | OMNIA S 3.2 UI HI3 10 |
| OMNIA S 3.2 HI3 6  | OMNIA UE 3.2 6  | OMNIA S 3.2 UI HI3 10 |
| OMNIA S 3.2 HI3 8  | OMNIA UE 3.2 8  | OMNIA S 3.2 UI HI3 10 |
| OMNIA S 3.2 HI3 10 | OMNIA UE 3.2 10 | OMNIA S 3.2 UI HI3 10 |

I prodotti elencati soddisfano i requisiti essenziali delle direttive, dei regolamenti e degli standard pertinenti:  
The listed products satisfy the essential requirements of the relevant Directives, Regulations and Standards:  
Los productos enumerados cumplen los requisitos esenciales de las directivas, reglamentos y normas pertinentes:

2014/35/EU – LVD Directive  
2014/30/EU – EMC Directive  
(EU) No 517/2014 – F-Gas Regulation  
2009/125/EC – ERP Directive  
(EU) No 811/2013 - Energy Labelling Commission Delegated Regulation  
(EU) No 813/2013 - ERP (Eco Design) Commission Regulation  
2017/1369/EU – ENERGY LABELLING Regulation  
2012/19/EU – WEEE Directive  
2011/65/EU and (EU) 2015/863 – RoHS Directive  
(EC) No 1907/2006 – REACH Regulation \*



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*\* Ferroli S.p.A. periodically asks to all its suppliers of raw materials and components for updated declarations about the presence of chemicals indicated in the Candidate List of SVHC (Substances of Very High Concern of Authorization) and its yearly integrations. Currently the declarations of our suppliers have been received after the Candidate List update on 14<sup>th</sup> June 2023.*

*\* Ferroli S.p.A. solicita periódicamente a todos sus proveedores de materias primas y componentes las declaraciones actualizadas sobre la presencia de sustancias químicas indicadas en Lista de Sustancias extremadamente preocupantes (SVHC) y sus integraciones anuales. Actualmente, las declaraciones de nuestros proveedores se han recibido después de la actualización de la Lista de Sustancias extremadamente preocupantes el 14 de junio de 2023.*

**EMC Directive**

EN 55014-1:2017+A11:2020 - EN 55014-2:2015

EN 61000-6-2:2005+AC:2005 - EN 61000-6-3:2007+A1:2011+AC:2012

**LVD Directive**

EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019+A15:2021

EN 60335-2-40:2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012

EN 62233:2008+AC:2008

**ERP Directive**

EN 12102-1:2022

EN 14825:2022

Qualsiasi modifica all'apparecchio e/o qualsiasi utilizzo non conforme alle istruzioni comporterà l'invalidazione della presente Dichiarazione di Conformità.

Any change to the appliance and/or any use not according to the instructions will lead the invalidation of this Declaration of Conformity.

Cualquier cambio en el aparato y/o cualquier uso no conforme a las instrucciones conllevará la invalidación de esta Declaración de Conformidad.

San Bonifacio, 22/07/2024

Luogo, data – Place, date – Lugar, fecha

Group Chief R&D Officer  
Alessandro Marocco



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Marchio:  
Trademark: FERROLI  
Marca comercial:

Prodotti / Identification of products / Identificación de los productos:

| SYSTEM              | OUTDOOR UNIT     | INDOOR UNIT            |
|---------------------|------------------|------------------------|
| OMNIA S 3.2 HI3 12  | OMNIA UE 3.2 12  | OMNIA S 3.2 UI HI3 16  |
| OMNIA S 3.2 HI3 14  | OMNIA UE 3.2 14  | OMNIA S 3.2 UI HI3 16  |
| OMNIA S 3.2 HI3 16  | OMNIA UE 3.2 16  | OMNIA S 3.2 UI HI3 16  |
| OMNIA S 3.2 HI6 12T | OMNIA UE 3.2 12T | OMNIA S 3.2 UI HI6 16T |
| OMNIA S 3.2 HI6 14T | OMNIA UE 3.2 14T | OMNIA S 3.2 UI HI6 16T |
| OMNIA S 3.2 HI6 16T | OMNIA UE 3.2 16T | OMNIA S 3.2 UI HI6 16T |

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2014/30/EU – EMC Directive  
(EU) No 517/2014 – F-Gas Regulation  
2014/68/EU – Pressure Equipment Directive (PED)  
2009/125/EC – ERP Directive  
EU) No 811/2013 - Energy Labelling Commission Delegated Regulation  
(EU) No 813/2013 - ERP (Eco Design) Commission Regulation  
2017/1369/EU – ENERGY LABELLING Regulation  
2012/19/EU – WEEE Directive  
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**EMC Directive**

EN 55014-1:2017+A11:2020 - EN 55014-2:2015

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EN 60335-2-40:2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012

EN 62233:2008+AC:2008

**ERP Directive**

EN 12102-1:2022

EN 14825:2022

**PED Directive**

EN 378-2:2016

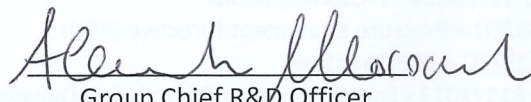
Qualsiasi modifica all'apparecchio e/o qualsiasi utilizzo non conforme alle istruzioni comporterà l'invalidazione della presente Dichiarazione di Conformità.

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San Bonifacio, 22/07/2024

Luogo, data – Place, date – Lugar, fecha



Group Chief R&D Officer  
Alessandro Marocco

This information was generated by the HP KEYMARK database on 4 May 2023

|                     |                                                       |          |            |
|---------------------|-------------------------------------------------------|----------|------------|
| Summary of          | Ferroli Omnia S 3.2 4-6 - Omnia ST 3.2 4-6            | Reg. No. | 011-1W0597 |
| Certificate Holder  |                                                       |          |            |
| Name                | Ferroli S.p.A.                                        |          |            |
| Address             | Via Ritonda 78/A                                      | ZIP      | 37047      |
| City                | San Bonifacio (VR)                                    | Country  | Italy      |
| Certification Body  | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |          |            |
| Subtype title       | Ferroli Omnia S 3.2 4-6 - Omnia ST 3.2 4-6            |          |            |
| Heat Pump Type      | Outdoor Air/Water                                     |          |            |
| Refrigerant         | R32                                                   |          |            |
| Mass of Refrigerant | 1.5 kg                                                |          |            |
| Certification Date  | 03.05.2023                                            |          |            |
| Testing basis       | HP KEYMARK certification scheme rules V11             |          |            |

This information was generated by the HP KEYMARK database on 4 May 2023

## Model: OMNIA S 3.2 4

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 4                   |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

| General Data |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 4.20 kW         | 4.40 kW            |
| El input    | 0.82 kW         | 1.49 kW            |
| COP         | 5.10            | 2.95               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 1.36 kW    | 0.82 kW     |
| Cooling capacity | 4.70       | 4.50        |
| EER              | 3.45       | 5.50        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 4.70 kW           | 4.50 kW            |
| SEER                                      | 4.96              | 7.73               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 4.66 kW           | 4.51 kW            |
| EER T <sub>j</sub> = 35°C                 | 3.52              | 5.54               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 3.66 kW           | 3.44 kW            |
| EER T <sub>j</sub> = 30°C                 | 4.76              | 7.23               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 2.21 kW           | 2.19 kW            |
| EER T <sub>j</sub> = 25°C                 | 5.72              | 8.94               |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 0.94 kW           | 1.13 kW            |
| EER T <sub>j</sub> = 20°C                 | 5.72              | 10.48              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| P <sub>TO</sub>                           | 10 W              | 10 W               |
| P <sub>SB</sub>                           | 14 W              | 14 W               |
| P <sub>CK</sub>                           | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 569 kWh           | 349 kWh            |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 39 dB(A)        | 39 dB(A)           |
| Sound power level outdoor | 55 dB(A)        | 56 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 255 %           | 162 %              |
| Prated          | 5.50 kW         | 5.00 kW            |
| SCOP            | 6.41            | 4.08               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 5.34 kW         | 4.83 kW            |
| COP Tj = +2°C   | 3.94            | 2.51               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 3.56 kW         | 3.22 kW            |
| COP Tj = +7°C   | 5.92            | 3.68               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 1.63 kW         | 1.47 kW            |
| COP Tj = 12°C   | 7.91            | 5.15               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 3.56 kW     | 3.22 kW     |
| COP Tj = Tbiv                                       | 5.92        | 3.68        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.34 kW     | 4.83 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.94        | 2.51        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.16 kW     | 0.17 kW     |
| Annual energy consumption Qhe                       | 1146 kWh    | 1621 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 39 dB(A)               | 39 dB(A)                  |
| Sound power level outdoor | 55 dB(A)               | 56 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 160 %                  | 102 %                     |
| Prated                                              | 4.60 kW                | 3.40 kW                   |
| SCOP                                                | 4.03                   | 2.58                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 2.75 kW                | 2.13 kW                   |
| COP Tj = -7°C                                       | 3.49                   | 2.32                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 1.77 kW                | 1.28 kW                   |
| COP Tj = +2°C                                       | 4.95                   | 2.99                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 1.17 kW                | 1.01 kW                   |
| COP Tj = +7°C                                       | 5.53                   | 3.86                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 1.43 kW                | 1.36 kW                   |
| COP Tj = 12°C                                       | 7.67                   | 6.28                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 3.72 kW                | 2.74 kW                   |
| COP Tj = Tbiv                                       | 2.57                   | 1.74                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.80 kW                | 1.64 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.97        | 1.02        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.80 kW     | 1.76 kW     |
| Annual energy consumption Qhe                       | 2769 kWh    | 3159 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 3.72        | 2.74        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.57        | 1.74        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 39 dB(A)               | 39 dB(A)                  |
| Sound power level outdoor | 55 dB(A)               | 56 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 191 %                  | 129 %                     |
| Prated                                              | 5.50 kW                | 4.40 kW                   |
| SCOP                                                | 4.81                   | 3.26                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 4.88 kW                | 3.89 kW                   |
| COP Tj = -7°C                                       | 3.19                   | 2.17                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 3.05 kW                | 2.38 kW                   |
| COP Tj = +2°C                                       | 4.78                   | 3.30                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 1.93 kW                | 2.94 kW                   |
| COP Tj = +7°C                                       | 6.13                   | 4.41                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 1.48 kW                | 1.32 kW                   |
| COP Tj = 12°C                                       | 8.05                   | 5.66                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 4.88 kW                | 3.89 kW                   |
| COP Tj = Tbiv                                       | 3.19                   | 2.17                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.41 kW                | 3.42 kW                   |

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|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86        | 1.91        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.09 kW     | 0.98 kW     |
| Annual energy consumption Qhe                       | 2351 kWh    | 2744 kWh    |

This information was generated by the HP KEYMARK database on 4 May 2023

## Model: OMNIA S 3.2 6

### Configure model

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 6                   |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

### General Data

|              |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-2

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.35 kW         | 6.00 kW            |
| El input    | 1.28 kW         | 2.03 kW            |
| COP         | 4.95            | 2.95               |

### EN 14511-4

| Shutting off the heat transfer medium flow | passed |
|--------------------------------------------|--------|
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

## Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 2.17 kW    | 1.35 kW     |
| Cooling capacity | 6.50       | 6.50        |
| EER              | 3.00       | 4.80        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 6.30 kW           | 6.50 kW            |
| SEER                                      | 5.31              | 8.16               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.35 kW           | 6.55 kW            |
| EER T <sub>j</sub> = 35°C                 | 2.93              | 4.69               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 4.76 kW           | 4.84 kW            |
| EER T <sub>j</sub> = 30°C                 | 4.53              | 7.16               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 3.02 kW           | 3.26 kW            |
| EER T <sub>j</sub> = 25°C                 | 6.32              | 9.64               |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 1.39 kW           | 1.41 kW            |
| EER T <sub>j</sub> = 20°C                 | 7.20              | 11.48              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| PTO                                       | 10 W              | 10 W               |
| PSB                                       | 14 W              | 14 W               |
| PCK                                       | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 713 kWh           | 478 kWh            |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 39 dB(A)        | 39 dB(A)           |
| Sound power level outdoor | 57 dB(A)        | 58 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 260 %           | 165 %              |
| Prated          | 6.10 kW         | 5.10 kW            |
| SCOP            | 6.53            | 4.16               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 5.93 kW         | 5.02 kW            |
| COP Tj = +2°C   | 3.91            | 2.48               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 3.93 kW         | 3.31 kW            |
| COP Tj = +7°C   | 5.89            | 3.67               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 1.79 kW         | 1.60 kW            |
| COP Tj = 12°C   | 8.20            | 5.29               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 3.93 kW     | 3.31 kW     |
| COP Tj = Tbiv                                       | 5.89        | 3.67        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW     | 5.02 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.91        | 2.48        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.17 kW     | 0.08 kW     |
| Annual energy consumption Qhe                       | 1244 kWh    | 1640 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 39 dB(A)               | 39 dB(A)                  |
| Sound power level outdoor | 57 dB(A)               | 58 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 165 %                  | 111 %                     |
| Prated                                              | 5.60 kW                | 4.30 kW                   |
| SCOP                                                | 4.16                   | 2.81                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 3.42 kW                | 2.70 kW                   |
| COP Tj = -7°C                                       | 3.59                   | 2.46                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 2.06 kW                | 1.60 kW                   |
| COP Tj = +2°C                                       | 5.21                   | 3.36                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 1.46 kW                | 1.02 kW                   |
| COP Tj = +7°C                                       | 6.24                   | 3.94                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 1.44 kW                | 1.37 kW                   |
| COP Tj = 12°C                                       | 7.66                   | 6.35                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 4.59 kW                | 3.47 kW                   |
| COP Tj = Tbiv                                       | 2.53                   | 1.86                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.48 kW                | 2.09 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.96        | 1.13        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.12 kW     | 2.21 kW     |
| Annual energy consumption Qhe                       | 3300 kWh    | 3681 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 4.59        | 3.47        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.53        | 1.86        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 39 dB(A)               | 39 dB(A)                  |
| Sound power level outdoor | 57 dB(A)               | 58 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 195 %                  | 138 %                     |
| Prated                                              | 6.80 kW                | 5.70 kW                   |
| SCOP                                                | 4.91                   | 3.48                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 6.03 kW                | 5.04 kW                   |
| COP Tj = -7°C                                       | 3.09                   | 2.17                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 3.88 kW                | 3.12 kW                   |
| COP Tj = +2°C                                       | 4.85                   | 3.51                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 2.39 kW                | 2.08 kW                   |
| COP Tj = +7°C                                       | 6.63                   | 4.54                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 1.39 kW                | 1.28 kW                   |
| COP Tj = 12°C                                       | 7.93                   | 5.59                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 6.03 kW                | 5.04 kW                   |
| COP Tj = Tbiv                                       | 3.09                   | 2.17                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.36 kW                | 4.52 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86        | 1.91        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.44 kW     | 1.18 kW     |
| Annual energy consumption Qhe                       | 2845 kWh    | 3345 kWh    |

This information was generated by the HP KEYMARK database on 4 May 2023

|                     |                                                       |          |            |
|---------------------|-------------------------------------------------------|----------|------------|
| Summary of          | Ferroli Omnia S 3.2 8-10 - Omnia ST 3.2 8-10          | Reg. No. | 011-1W0598 |
| Certificate Holder  |                                                       |          |            |
| Name                | Ferroli S.p.A.                                        |          |            |
| Address             | Via Ritonda 78/A                                      | ZIP      | 37047      |
| City                | San Bonifacio (VR)                                    | Country  | Italy      |
| Certification Body  | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |          |            |
| Subtype title       | Ferroli Omnia S 3.2 8-10 - Omnia ST 3.2 8-10          |          |            |
| Heat Pump Type      | Outdoor Air/Water                                     |          |            |
| Refrigerant         | R32                                                   |          |            |
| Mass of Refrigerant | 1.65 kg                                               |          |            |
| Certification Date  | 03.05.2023                                            |          |            |
| Testing basis       | HP KEYMARK certification scheme rules V11             |          |            |

This information was generated by the HP KEYMARK database on 4 May 2023

## Model: OMNIA S 3.2 8

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 8                   |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

| General Data |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 8.40 kW         | 7.50 kW            |
| El input    | 1.63 kW         | 2.36 kW            |
| COP         | 5.15            | 3.18               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 2.22 kW    | 1.64 kW     |
| Cooling capacity | 7.45       | 8.30        |
| EER              | 3.35       | 5.05        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 7.40 kW           | 8.40 kW            |
| SEER                                      | 5.78              | 8.91               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 7.38 kW           | 8.37 kW            |
| EER T <sub>j</sub> = 35°C                 | 3.39              | 5.09               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.72 kW           | 6.47 kW            |
| EER T <sub>j</sub> = 30°C                 | 4.71              | 7.02               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 3.62 kW           | 4.31 kW            |
| EER T <sub>j</sub> = 25°C                 | 6.65              | 10.67              |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 1.64 kW           | 1.80 kW            |
| EER T <sub>j</sub> = 20°C                 | 8.55              | 13.61              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| PTO                                       | 10 W              | 10 W               |
| PSB                                       | 14 W              | 14 W               |
| PCK                                       | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 768 kWh           | 566 kWh            |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 39 dB(A)        | 39 dB(A)           |
| Sound power level outdoor | 59 dB(A)        | 59 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 277 %           | 176 %              |
| Prated          | 8.10 kW         | 7.60 kW            |
| SCOP            | 6.96            | 4.43               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 7.56 kW         | 7.55 kW            |
| COP Tj = +2°C   | 3.98            | 2.59               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 5.22 kW         | 4.86 kW            |
| COP Tj = +7°C   | 6.26            | 3.92               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 2.62 kW         | 2.31 kW            |
| COP Tj = 12°C   | 9.23            | 5.55               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 5.22 kW     | 4.86 kW     |
| COP Tj = Tbiv                                       | 6.26        | 3.92        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.56 kW     | 7.55 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.98        | 2.59        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.54 kW     | 0.05 kW     |
| Annual energy consumption Qhe                       | 1551 kWh    | 2259 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 39 dB(A)               | 39 dB(A)                  |
| Sound power level outdoor | 59 dB(A)               | 59 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 170 %                  | 112 %                     |
| Prated                                              | 7.00 kW                | 5.80 kW                   |
| SCOP                                                | 4.28                   | 2.83                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 4.46 kW                | 3.86 kW                   |
| COP Tj = -7°C                                       | 3.66                   | 2.48                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 2.69 kW                | 2.21 kW                   |
| COP Tj = +2°C                                       | 5.20                   | 3.35                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 1.65 kW                | 1.44 kW                   |
| COP Tj = +7°C                                       | 6.53                   | 4.11                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 1.65 kW                | 1.46 kW                   |
| COP Tj = 12°C                                       | 7.96                   | 5.92                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 5.69 kW                | 4.71 kW                   |
| COP Tj = Tbiv                                       | 2.83                   | 1.90                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.06 kW                | 2.80 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.95        | 1.22        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.94 kW     | 3.00 kW     |
| Annual energy consumption Qhe                       | 3976 kWh    | 4950 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 5.69        | 4.71        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.83        | 1.90        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 39 dB(A)               | 39 dB(A)                  |
| Sound power level outdoor | 59 dB(A)               | 59 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 205 %                  | 131 %                     |
| Prated                                              | 8.10 kW                | 6.60 kW                   |
| SCOP                                                | 5.16                   | 3.31                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 7.18 kW                | 5.84 kW                   |
| COP Tj = -7°C                                       | 3.35                   | 2.16                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 4.65 kW                | 3.75 kW                   |
| COP Tj = +2°C                                       | 5.09                   | 3.30                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 2.90 kW                | 2.42 kW                   |
| COP Tj = +7°C                                       | 6.82                   | 4.34                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 1.63 kW                | 1.39 kW                   |
| COP Tj = 12°C                                       | 8.35                   | 5.33                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 7.18 kW                | 5.84 kW                   |
| COP Tj = Tbiv                                       | 3.35                   | 2.16                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.44 kW                | 4.90 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.04        | 1.84        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.66 kW     | 1.70 kW     |
| Annual energy consumption Qhe                       | 3218 kWh    | 4056 kWh    |

## Model: OMNIA S 3.2 10

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 10                  |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

| General Data |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 10.00 kW        | 9.50 kW            |
| El input    | 2.02 kW         | 3.06 kW            |
| COP         | 4.95            | 3.10               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 2.52 kW    | 2.18 kW     |
| Cooling capacity | 8.20       | 9.90        |
| EER              | 3.25       | 4.55        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 8.70 kW           | 10.00 kW           |
| SEER                                      | 5.93              | 8.73               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 8.73 kW           | 10.01 kW           |
| EER T <sub>j</sub> = 35°C                 | 3.21              | 4.64               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 6.68 kW           | 7.71 kW            |
| EER T <sub>j</sub> = 30°C                 | 4.47              | 6.45               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 4.26 kW           | 5.03 kW            |
| EER T <sub>j</sub> = 25°C                 | 7.02              | 10.36              |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 1.94 kW           | 2.32 kW            |
| EER T <sub>j</sub> = 20°C                 | 9.54              | 14.98              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| P <sub>TO</sub>                           | 10 W              | 10 W               |
| P <sub>SB</sub>                           | 14 W              | 14 W               |
| P <sub>CK</sub>                           | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 880 kWh           | 687 kWh            |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 39 dB(A)        | 39 dB(A)           |
| Sound power level outdoor | 60 dB(A)        | 60 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 281 %           | 180 %              |
| Prated          | 8.60 kW         | 8.60 kW            |
| SCOP            | 7.06            | 4.53               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 8.44 kW         | 8.06 kW            |
| COP Tj = +2°C   | 3.84            | 2.59               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 5.52 kW         | 5.54 kW            |
| COP Tj = +7°C   | 6.18            | 4.10               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 2.62 kW         | 2.53 kW            |
| COP Tj = 12°C   | 9.04            | 5.82               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 5.52 kW     | 5.54 kW     |
| COP Tj = Tbiv                                       | 6.18        | 4.10        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.44 kW     | 8.15 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.84        | 2.61        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.16 kW     | 0.45 kW     |
| Annual energy consumption Qhe                       | 1617 kWh    | 2516 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 39 dB(A)               | 39 dB(A)                  |
| Sound power level outdoor | 60 dB(A)               | 60 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 170 %                  | 116 %                     |
| Prated                                              | 7.70 kW                | 6.70 kW                   |
| SCOP                                                | 4.28                   | 2.93                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 4.83 kW                | 4.27 kW                   |
| COP Tj = -7°C                                       | 3.60                   | 2.54                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 2.94 kW                | 2.57 kW                   |
| COP Tj = +2°C                                       | 5.26                   | 3.51                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 1.92 kW                | 1.65 kW                   |
| COP Tj = +7°C                                       | 7.08                   | 4.37                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 1.65 kW                | 1.47 kW                   |
| COP Tj = 12°C                                       | 7.96                   | 5.96                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 6.32 kW                | 5.47 kW                   |
| COP Tj = Tbiv                                       | 2.64                   | 2.00                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.62 kW                | 2.80 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.97        | 1.22        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 3.08 kW     | 3.91 kW     |
| Annual energy consumption Qhe                       | 4423 kWh    | 5540 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 6.32        | 5.47        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.64        | 2.00        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 39 dB(A)               | 39 dB(A)                  |
| Sound power level outdoor | 60 dB(A)               | 60 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 204 %                  | 136 %                     |
| Prated                                              | 9.20 kW                | 7.70 kW                   |
| SCOP                                                | 5.13                   | 3.43                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 8.10 kW                | 6.78 kW                   |
| COP Tj = -7°C                                       | 3.23                   | 2.24                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 5.18 kW                | 4.28 kW                   |
| COP Tj = +2°C                                       | 5.01                   | 3.42                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 3.32 kW                | 2.77 kW                   |
| COP Tj = +7°C                                       | 7.08                   | 4.52                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 1.65 kW                | 1.58 kW                   |
| COP Tj = 12°C                                       | 8.58                   | 5.68                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 8.10 kW                | 6.78 kW                   |
| COP Tj = Tbiv                                       | 3.23                   | 2.24                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.40 kW                | 5.38 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.96        | 1.83        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.80 kW     | 2.32 kW     |
| Annual energy consumption Qhe                       | 3644 kWh    | 4539 kWh    |

This information was generated by the HP KEYMARK database on 4 May 2023

|                     |                                                                              |          |            |
|---------------------|------------------------------------------------------------------------------|----------|------------|
| Summary of          | Ferroli Omnia S 3.2 12-14-16-12T-14T-16T - Omnia ST 3.2 12-14-16-12T-14T-16T | Reg. No. | 011-1W0596 |
| Certificate Holder  |                                                                              |          |            |
| Name                | Ferroli S.p.A.                                                               |          |            |
| Address             | Via Ritonda 78/A                                                             | ZIP      | 37047      |
| City                | San Bonifacio (VR)                                                           | Country  | Italy      |
| Certification Body  | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH                        |          |            |
| Subtype title       | Ferroli Omnia S 3.2 12-14-16-12T-14T-16T - Omnia ST 3.2 12-14-16-12T-14T-16T |          |            |
| Heat Pump Type      | Outdoor Air/Water                                                            |          |            |
| Refrigerant         | R32                                                                          |          |            |
| Mass of Refrigerant | 1.84 kg                                                                      |          |            |
| Certification Date  | 03.05.2023                                                                   |          |            |
| Testing basis       | HP KEYMARK certification scheme rules V11                                    |          |            |

## Model: OMNIA S 3.2 12

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 12                  |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

| General Data |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 12.10 kW        | 11.90 kW           |
| El input    | 2.44 kW         | 3.90 kW            |
| COP         | 4.95            | 3.05               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 4.18 kW    | 3.04 kW     |
| Cooling capacity | 11.50      | 12.00       |
| EER              | 2.75       | 3.95        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 11.30 kW          | 11.80 kW           |
| SEER                                      | 4.83              | 7.06               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 11.31 kW          | 11.77 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.61              | 3.87               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 8.76 kW           | 9.21 kW            |
| EER T <sub>j</sub> = 30°C                 | 3.93              | 5.50               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.81 kW           | 5.74 kW            |
| EER T <sub>j</sub> = 25°C                 | 5.73              | 8.66               |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 2.63 kW           | 3.33 kW            |
| EER T <sub>j</sub> = 20°C                 | 6.75              | 10.07              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| P <sub>TO</sub>                           | 10 W              | 10 W               |
| P <sub>SB</sub>                           | 14 W              | 14 W               |
| P <sub>CK</sub>                           | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 1404 kWh          | 1004 kWh           |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 64 dB(A)        | 64 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 256 %           | 174 %              |
| Prated          | 11.10 kW        | 12.50 kW           |
| SCOP            | 6.43            | 4.38               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 11.09 kW        | 12.07 kW           |
| COP Tj = +2°C   | 3.59            | 2.31               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 7.14 kW         | 8.04 kW            |
| COP Tj = +7°C   | 5.87            | 3.86               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 3.55 kW         | 3.75 kW            |
| COP Tj = 12°C   | 7.94            | 5.70               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 7.14 kW     | 8.04 kW     |
| COP Tj = Tbiv                                       | 5.87        | 3.86        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.09 kW    | 12.07 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.59        | 2.31        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.01 kW     | 0.43 kW     |
| Annual energy consumption Qhe                       | 2296 kWh    | 3776 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 64 dB(A)               | 64 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 160 %                  | 118 %                     |
| Prated                                              | 11.40 kW               | 10.30 kW                  |
| SCOP                                                | 4.03                   | 2.98                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 7.05 kW                | 6.63 kW                   |
| COP Tj = -7°C                                       | 3.48                   | 2.63                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 4.67 kW                | 4.06 kW                   |
| COP Tj = +2°C                                       | 4.96                   | 3.60                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 3.14 kW                | 2.78 kW                   |
| COP Tj = +7°C                                       | 6.10                   | 4.54                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.57 kW                | 3.33 kW                   |
| COP Tj = 12°C                                       | 7.87                   | 6.25                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 9.28 kW                | 8.41 kW                   |
| COP Tj = Tbiv                                       | 2.59                   | 1.84                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.01 kW                | 4.19 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.98        | 1.13        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 4.39 kW     | 6.11 kW     |
| Annual energy consumption Qhe                       | 6871 kWh    | 8419 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 9.28        | 8.41        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.59        | 1.84        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 64 dB(A)               | 64 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 189 %                  | 135 %                     |
| Prated                                              | 12.00 kW               | 11.60 kW                  |
| SCOP                                                | 4.76                   | 3.41                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 10.61 kW               | 10.24 kW                  |
| COP Tj = -7°C                                       | 2.88                   | 2.01                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 6.69 kW                | 6.52 kW                   |
| COP Tj = +2°C                                       | 4.65                   | 3.44                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 4.44 kW                | 4.36 kW                   |
| COP Tj = +7°C                                       | 6.62                   | 4.59                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.74 kW                | 3.29 kW                   |
| COP Tj = 12°C                                       | 8.47                   | 6.05                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 10.61 kW               | 10.24 kW                  |
| COP Tj = Tbiv                                       | 2.88                   | 2.01                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.74 kW               | 9.10 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77        | 1.79        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.26 kW     | 2.50 kW     |
| Annual energy consumption Qhe                       | 5153 kWh    | 6927 kWh    |

## Model: OMNIA S 3.2 14

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 14                  |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

| General Data |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 14.50 kW        | 13.80 kW           |
| El input    | 3.15 kW         | 4.68 kW            |
| COP         | 4.60            | 2.95               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 4.96 kW    | 3.49 kW     |
| Cooling capacity | 12.40      | 12.90       |
| EER              | 2.50       | 3.70        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 12.20 kW          | 13.30 kW           |
| SEER                                      | 4.81              | 6.86               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 12.19 kW          | 13.30 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.46              | 3.47               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 9.41 kW           | 10.20 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.85              | 5.26               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 6.16 kW           | 6.57 kW            |
| EER T <sub>j</sub> = 25°C                 | 5.80              | 8.45               |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 2.63 kW           | 3.33 kW            |
| EER T <sub>j</sub> = 20°C                 | 6.74              | 10.07              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| P <sub>TO</sub>                           | 10 W              | 10 W               |
| P <sub>SB</sub>                           | 14 W              | 14 W               |
| P <sub>CK</sub>                           | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 1523 kWh          | 1164 kWh           |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 65 dB(A)        | 65 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 260 %           | 177 %              |
| Prated          | 12.10 kW        | 13.70 kW           |
| SCOP            | 6.53            | 4.46               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 12.04 kW        | 13.04 kW           |
| COP Tj = +2°C   | 3.44            | 2.20               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 7.78 kW         | 8.83 kW            |
| COP Tj = +7°C   | 5.84            | 3.91               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 3.75 kW         | 4.08 kW            |
| COP Tj = 12°C   | 8.25            | 5.90               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 7.78 kW     | 8.83 kW     |
| COP Tj = Tbiv                                       | 5.84        | 3.91        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.04 kW    | 13.04 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.44        | 2.20        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.06 kW     | 0.66 kW     |
| Annual energy consumption Qhe                       | 2462 kWh    | 4088 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 65 dB(A)               | 65 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 160 %                  | 119 %                     |
| Prated                                              | 12.60 kW               | 11.00 kW                  |
| SCOP                                                | 4.03                   | 3.01                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 7.96 kW                | 6.89 kW                   |
| COP Tj = -7°C                                       | 3.44                   | 2.66                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 5.05 kW                | 4.32 kW                   |
| COP Tj = +2°C                                       | 4.92                   | 3.66                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 3.15 kW                | 3.06 kW                   |
| COP Tj = +7°C                                       | 6.11                   | 4.72                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.57 kW                | 3.33 kW                   |
| COP Tj = 12°C                                       | 7.82                   | 6.25                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 10.31 kW               | 8.94 kW                   |
| COP Tj = Tbiv                                       | 2.53                   | 1.79                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.57 kW                | 4.20 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.92        | 1.13        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 5.03 kW     | 6.80 kW     |
| Annual energy consumption Qhe                       | 7667 kWh    | 8866 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 10.31       | 8.94        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.53        | 1.79        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 65 dB(A)               | 65 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 185 %                  | 135 %                     |
| Prated                                              | 13.70 kW               | 12.08 kW                  |
| SCOP                                                | 4.66                   | 3.41                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 12.14 kW               | 10.68 kW                  |
| COP Tj = -7°C                                       | 2.79                   | 2.01                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 7.94 kW                | 6.86 kW                   |
| COP Tj = +2°C                                       | 4.52                   | 3.43                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 5.20 kW                | 4.63 kW                   |
| COP Tj = +7°C                                       | 6.68                   | 4.66                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.75 kW                | 3.31 kW                   |
| COP Tj = 12°C                                       | 8.52                   | 6.13                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 12.14 kW               | 10.68 kW                  |
| COP Tj = Tbiv                                       | 2.79                   | 2.01                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.47 kW               | 9.19 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.59        | 1.76        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.23 kW     | 2.89 kW     |
| Annual energy consumption Qhe                       | 6013 kWh    | 7202 kWh    |

## Model: OMNIA S 3.2 16

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 16                  |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

| General Data |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 15.90 kW        | 16.00 kW           |
| El input    | 3.53 kW         | 5.61 kW            |
| COP         | 4.50            | 2.85               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 5.60 kW    | 3.77 kW     |
| Cooling capacity | 14.00      | 13.60       |
| EER              | 2.50       | 3.61        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 14.30 kW          | 15.40 kW           |
| SEER                                      | 4.63              | 6.71               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 14.31 kW          | 15.40 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.47              | 3.50               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 10.68 kW          | 11.42 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.63              | 5.14               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 6.76 kW           | 7.27 kW            |
| EER T <sub>j</sub> = 25°C                 | 5.27              | 7.83               |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 3.41 kW           | 3.40 kW            |
| EER T <sub>j</sub> = 20°C                 | 7.29              | 10.35              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| P <sub>TO</sub>                           | 10 W              | 10 W               |
| P <sub>SB</sub>                           | 14 W              | 14 W               |
| P <sub>CK</sub>                           | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 1853 kWh          | 1378 kWh           |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 68 dB(A)        | 68 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 249 %           | 176 %              |
| Prated          | 13.10 kW        | 13.80 kW           |
| SCOP            | 6.26            | 4.43               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 13.09 kW        | 13.38 kW           |
| COP Tj = +2°C   | 3.35            | 2.29               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 8.41 kW         | 8.86 kW            |
| COP Tj = +7°C   | 5.36            | 3.84               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 3.87 kW         | 4.06 kW            |
| COP Tj = 12°C   | 8.11            | 5.86               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 8.41 kW     | 8.86 kW     |
| COP Tj = Tbiv                                       | 5.36        | 3.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 13.09 kW    | 13.38 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.35        | 2.29        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.01 kW     | 0.42 kW     |
| Annual energy consumption Qhe                       | 2786 kWh    | 4112 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 68 dB(A)               | 68 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 158 %                  | 122 %                     |
| Prated                                              | 13.70 kW               | 11.80 kW                  |
| SCOP                                                | 3.98                   | 3.08                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 8.31 kW                | 7.64 kW                   |
| COP Tj = -7°C                                       | 3.37                   | 2.65                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 5.26 kW                | 4.42 kW                   |
| COP Tj = +2°C                                       | 4.86                   | 3.79                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 3.62 kW                | 2.97 kW                   |
| COP Tj = +7°C                                       | 6.49                   | 4.81                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.34 kW                | 3.43 kW                   |
| COP Tj = 12°C                                       | 7.40                   | 6.29                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 11.22 kW               | 9.61 kW                   |
| COP Tj = Tbiv                                       | 2.43                   | 1.86                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.88 kW                | 5.21 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.97        | 1.23        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 4.82 kW     | 6.59 kW     |
| Annual energy consumption Qhe                       | 8431 kWh    | 9309 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 11.22       | 9.61        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.43        | 1.86        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 68 dB(A)               | 68 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 182 %                  | 133 %                     |
| Prated                                              | 15.20 kW               | 13.00 kW                  |
| SCOP                                                | 4.58                   | 3.36                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 13.45 kW               | 11.52 kW                  |
| COP Tj = -7°C                                       | 2.72                   | 1.99                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 8.56 kW                | 7.18 kW                   |
| COP Tj = +2°C                                       | 4.41                   | 3.34                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 5.70 kW                | 4.67 kW                   |
| COP Tj = +7°C                                       | 6.56                   | 4.61                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.78 kW                | 3.31 kW                   |
| COP Tj = 12°C                                       | 8.51                   | 6.07                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 13.45 kW               | 11.52 kW                  |
| COP Tj = Tbiv                                       | 2.72                   | 1.99                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.52 kW               | 10.33 kW                  |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.48        | 1.80        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.68 kW     | 2.67 kW     |
| Annual energy consumption Qhe                       | 6805 kWh    | 7895 kWh    |

## Model: OMNIA S 3.2 12T

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 12T                 |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

| General Data |             |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 12.10 kW        | 11.90 kW           |
| El input    | 2.44 kW         | 3.90 kW            |
| COP         | 4.95            | 3.05               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 4.18 kW    | 3.04 kW     |
| Cooling capacity | 11.50      | 12.00       |
| EER              | 2.75       | 3.95        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 11.30 kW          | 11.80 kW           |
| SEER                                      | 4.83              | 7.06               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 11.31 kW          | 11.77 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.61              | 3.87               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 8.76 kW           | 9.21 kW            |
| EER T <sub>j</sub> = 30°C                 | 3.93              | 5.50               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.81 kW           | 5.74 kW            |
| EER T <sub>j</sub> = 25°C                 | 5.73              | 8.66               |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 2.63 kW           | 3.33 kW            |
| EER T <sub>j</sub> = 20°C                 | 6.75              | 10.07              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| P <sub>TO</sub>                           | 10 W              | 10 W               |
| P <sub>SB</sub>                           | 14 W              | 14 W               |
| P <sub>CK</sub>                           | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 1404 kWh          | 1004 kWh           |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 64 dB(A)        | 64 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 256 %           | 174 %              |
| Prated          | 11.10 kW        | 12.50 kW           |
| SCOP            | 6.43            | 4.38               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 11.09 kW        | 12.07 kW           |
| COP Tj = +2°C   | 3.59            | 2.31               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 7.14 kW         | 8.04 kW            |
| COP Tj = +7°C   | 5.87            | 3.86               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 3.55 kW         | 3.75 kW            |
| COP Tj = 12°C   | 7.94            | 5.70               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 7.14 kW     | 8.04 kW     |
| COP Tj = Tbiv                                       | 5.87        | 3.86        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.09 kW    | 12.07 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.59        | 2.31        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.01 kW     | 0.43 kW     |
| Annual energy consumption Qhe                       | 2296 kWh    | 3776 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 64 dB(A)               | 64 dB(A)                  |

| <b>EN 14825</b> |
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|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 160 %                  | 118 %                     |
| Prated                                              | 11.40 kW               | 10.30 kW                  |
| SCOP                                                | 4.03                   | 2.98                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 7.05 kW                | 6.63 kW                   |
| COP Tj = -7°C                                       | 3.48                   | 2.63                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 4.67 kW                | 4.06 kW                   |
| COP Tj = +2°C                                       | 4.96                   | 3.60                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 3.14 kW                | 2.78 kW                   |
| COP Tj = +7°C                                       | 6.10                   | 4.54                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.57 kW                | 3.33 kW                   |
| COP Tj = 12°C                                       | 7.87                   | 6.25                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 9.28 kW                | 8.41 kW                   |
| COP Tj = Tbiv                                       | 2.59                   | 1.84                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.01 kW                | 4.19 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.98        | 1.13        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 4.39 kW     | 6.11 kW     |
| Annual energy consumption Qhe                       | 6871 kWh    | 8419 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 9.28        | 8.41        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.59        | 1.84        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 64 dB(A)               | 64 dB(A)                  |

| <b>EN 14825</b> |
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This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 189 %                  | 135 %                     |
| Prated                                              | 12.00 kW               | 11.60 kW                  |
| SCOP                                                | 4.76                   | 3.41                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 10.61 kW               | 10.24 kW                  |
| COP Tj = -7°C                                       | 2.88                   | 2.01                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 6.69 kW                | 6.52 kW                   |
| COP Tj = +2°C                                       | 4.65                   | 3.44                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 4.44 kW                | 4.36 kW                   |
| COP Tj = +7°C                                       | 6.62                   | 4.59                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.74 kW                | 3.29 kW                   |
| COP Tj = 12°C                                       | 8.47                   | 6.05                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 10.61 kW               | 10.24 kW                  |
| COP Tj = Tbiv                                       | 2.88                   | 2.01                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.74 kW               | 9.10 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77        | 1.79        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.26 kW     | 2.50 kW     |
| Annual energy consumption Qhe                       | 5153 kWh    | 6927 kWh    |

## Model: OMNIA S 3.2 14T

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 14T                 |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

| General Data |             |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 14.50 kW        | 13.80 kW           |
| El input    | 3.15 kW         | 4.68 kW            |
| COP         | 4.60            | 2.95               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Cooling

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 4.96 kW    | 3.49 kW     |
| Cooling capacity | 12.40      | 12.90       |
| EER              | 2.50       | 3.70        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 12.20 kW          | 13.30 kW           |
| SEER                                      | 4.81              | 6.86               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 12.19 kW          | 13.30 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.46              | 3.47               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 9.41 kW           | 10.20 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.85              | 5.26               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 6.16 kW           | 6.57 kW            |
| EER T <sub>j</sub> = 25°C                 | 5.80              | 8.45               |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 2.63 kW           | 3.33 kW            |
| EER T <sub>j</sub> = 20°C                 | 6.74              | 10.07              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| PTO                                       | 10 W              | 10 W               |
| PSB                                       | 14 W              | 14 W               |
| PCK                                       | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 1523 kWh          | 1164 kWh           |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 65 dB(A)        | 65 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 260 %           | 177 %              |
| Prated          | 12.10 kW        | 13.70 kW           |
| SCOP            | 6.53            | 4.46               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 12.04 kW        | 13.04 kW           |
| COP Tj = +2°C   | 3.44            | 2.20               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 7.78 kW         | 8.83 kW            |
| COP Tj = +7°C   | 5.84            | 3.91               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 3.75 kW         | 4.08 kW            |
| COP Tj = 12°C   | 8.25            | 5.90               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 7.78 kW     | 8.83 kW     |
| COP Tj = Tbiv                                       | 5.84        | 3.91        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.04 kW    | 13.04 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.44        | 2.20        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.06 kW     | 0.66 kW     |
| Annual energy consumption Qhe                       | 2462 kWh    | 4088 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 65 dB(A)               | 65 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 160 %                  | 119 %                     |
| Prated                                              | 12.60 kW               | 11.00 kW                  |
| SCOP                                                | 4.03                   | 3.01                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 7.96 kW                | 6.89 kW                   |
| COP Tj = -7°C                                       | 3.44                   | 2.66                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 5.05 kW                | 4.32 kW                   |
| COP Tj = +2°C                                       | 4.92                   | 3.66                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 3.15 kW                | 3.06 kW                   |
| COP Tj = +7°C                                       | 6.11                   | 4.72                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.57 kW                | 3.33 kW                   |
| COP Tj = 12°C                                       | 7.82                   | 6.25                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 10.31 kW               | 8.94 kW                   |
| COP Tj = Tbiv                                       | 2.53                   | 1.79                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.57 kW                | 4.20 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.92        | 1.13        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 5.03 kW     | 6.80 kW     |
| Annual energy consumption Qhe                       | 7667 kWh    | 8866 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 10.31       | 8.94        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.53        | 1.79        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 65 dB(A)               | 65 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 185 %                  | 135 %                     |
| Prated                                              | 13.70 kW               | 12.08 kW                  |
| SCOP                                                | 4.66                   | 3.41                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 12.14 kW               | 10.68 kW                  |
| COP Tj = -7°C                                       | 2.79                   | 2.01                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 7.94 kW                | 6.86 kW                   |
| COP Tj = +2°C                                       | 4.52                   | 3.43                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 5.20 kW                | 4.63 kW                   |
| COP Tj = +7°C                                       | 6.68                   | 4.66                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.75 kW                | 3.31 kW                   |
| COP Tj = 12°C                                       | 8.52                   | 6.13                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 12.14 kW               | 10.68 kW                  |
| COP Tj = Tbiv                                       | 2.79                   | 2.01                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.47 kW               | 9.19 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.59        | 1.76        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.23 kW     | 2.89 kW     |
| Annual energy consumption Qhe                       | 6013 kWh    | 7202 kWh    |

## Model: OMNIA S 3.2 16T

### Configure model

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | OMNIA S 3.2 16T                 |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor + Outdoor                |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C       |

### General Data

|              |             |
|--------------|-------------|
| Power supply | 3x400V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-2

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 15.90 kW        | 16.00 kW           |
| El input    | 3.53 kW         | 5.61 kW            |
| COP         | 4.50            | 2.85               |

### EN 14511-4

| Shutting off the heat transfer medium flow | passed |
|--------------------------------------------|--------|
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

## Cooling

### EN 14511-2

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 5.60 kW    | 3.77 kW     |
| Cooling capacity | 14.00      | 13.60       |
| EER              | 2.50       | 3.61        |

### EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

|                                           | <b>+7°C/+12°C</b> | <b>+18°C/+23°C</b> |
|-------------------------------------------|-------------------|--------------------|
| P <sub>designc</sub>                      | 14.30 kW          | 15.40 kW           |
| SEER                                      | 4.63              | 6.71               |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 14.31 kW          | 15.40 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.47              | 3.50               |
| C <sub>dc</sub> T <sub>j</sub> = 35 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 10.68 kW          | 11.42 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.63              | 5.14               |
| C <sub>dc</sub> T <sub>j</sub> = 30 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 6.76 kW           | 7.27 kW            |
| EER T <sub>j</sub> = 25°C                 | 5.27              | 7.83               |
| C <sub>dc</sub> T <sub>j</sub> = 25 °C    | 0.900             | 0.900              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 3.41 kW           | 3.40 kW            |
| EER T <sub>j</sub> = 20°C                 | 7.29              | 10.35              |
| C <sub>dc</sub> T <sub>j</sub> = 20 °C    | 0.900             | 0.900              |
| P <sub>off</sub>                          | 14 W              | 14 W               |
| PTO                                       | 10 W              | 10 W               |
| PSB                                       | 14 W              | 14 W               |
| PCK                                       | 0 W               | 0 W                |
| Annual energy consumption Q <sub>ce</sub> | 1853 kWh          | 1378 kWh           |

## Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 68 dB(A)        | 68 dB(A)           |

### EN 14825

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 249 %           | 176 %              |
| Prated          | 13.10 kW        | 13.80 kW           |
| SCOP            | 6.26            | 4.43               |
| Tbiv            | 7 °C            | 7 °C               |
| TOL             | 2 °C            | 2 °C               |
| Pdh Tj = +2°C   | 13.09 kW        | 13.38 kW           |
| COP Tj = +2°C   | 3.35            | 2.29               |
| Cdh Tj = +2 °C  | 0.900           | 0.900              |
| Pdh Tj = +7°C   | 8.41 kW         | 8.86 kW            |
| COP Tj = +7°C   | 5.36            | 3.84               |
| Cdh Tj = +7 °C  | 0.900           | 0.900              |
| Pdh Tj = 12°C   | 3.87 kW         | 4.06 kW            |
| COP Tj = 12°C   | 8.11            | 5.86               |
| Cdh Tj = +12 °C | 0.900           | 0.900              |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv                                       | 8.41 kW     | 8.86 kW     |
| COP Tj = Tbiv                                       | 5.36        | 3.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 13.09 kW    | 13.38 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.35        | 2.29        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 62 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.01 kW     | 0.42 kW     |
| Annual energy consumption Qhe                       | 2786 kWh    | 4112 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 68 dB(A)               | 68 dB(A)                  |

| <b>EN 14825</b> |
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This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 158 %                  | 122 %                     |
| Prated                                              | 13.70 kW               | 11.80 kW                  |
| SCOP                                                | 3.98                   | 3.08                      |
| Tbiv                                                | -15 °C                 | -15 °C                    |
| TOL                                                 | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C                                       | 8.31 kW                | 7.64 kW                   |
| COP Tj = -7°C                                       | 3.37                   | 2.65                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 5.26 kW                | 4.42 kW                   |
| COP Tj = +2°C                                       | 4.86                   | 3.79                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 3.62 kW                | 2.97 kW                   |
| COP Tj = +7°C                                       | 6.49                   | 4.81                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.34 kW                | 3.43 kW                   |
| COP Tj = 12°C                                       | 7.40                   | 6.29                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 11.22 kW               | 9.61 kW                   |
| COP Tj = Tbiv                                       | 2.43                   | 1.86                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.88 kW                | 5.21 kW                   |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.97        | 1.23        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 51 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 4.82 kW     | 6.59 kW     |
| Annual energy consumption Qhe                       | 8431 kWh    | 9309 kWh    |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 11.22       | 9.61        |
| COP Tj = -15°C (if TOL<-20°C)                       | 2.43        | 1.86        |
| Cdh Tj = -15 °C                                     | 0.900       | 0.900       |

## Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               | 40 dB(A)                  |
| Sound power level outdoor | 68 dB(A)               | 68 dB(A)                  |

| <b>EN 14825</b> |
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This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     | <b>Low temperature</b> | <b>Medium temperature</b> |
|-----------------------------------------------------|------------------------|---------------------------|
| $\eta_s$                                            | 182 %                  | 133 %                     |
| Prated                                              | 15.20 kW               | 13.00 kW                  |
| SCOP                                                | 4.58                   | 3.36                      |
| Tbiv                                                | -7 °C                  | -7 °C                     |
| TOL                                                 | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C                                       | 13.45 kW               | 11.52 kW                  |
| COP Tj = -7°C                                       | 2.72                   | 1.99                      |
| Cdh Tj = -7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +2°C                                       | 8.56 kW                | 7.18 kW                   |
| COP Tj = +2°C                                       | 4.41                   | 3.34                      |
| Cdh Tj = +2 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = +7°C                                       | 5.70 kW                | 4.67 kW                   |
| COP Tj = +7°C                                       | 6.56                   | 4.61                      |
| Cdh Tj = +7 °C                                      | 0.900                  | 0.900                     |
| Pdh Tj = 12°C                                       | 3.78 kW                | 3.31 kW                   |
| COP Tj = 12°C                                       | 8.51                   | 6.07                      |
| Cdh Tj = +12 °C                                     | 0.900                  | 0.900                     |
| Pdh Tj = Tbiv                                       | 13.45 kW               | 11.52 kW                  |
| COP Tj = Tbiv                                       | 2.72                   | 1.99                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.52 kW               | 10.33 kW                  |

This information was generated by the HP KEYMARK database on 4 May 2023

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.48        | 1.80        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 24 W        | 24 W        |
| PSB                                                 | 14 W        | 14 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.68 kW     | 2.67 kW     |
| Annual energy consumption Qhe                       | 6805 kWh    | 7895 kWh    |