



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 basamento con bollitore acs integrato per pompe di calore reversibili split con compressore DC inverter
Appliance type: Reversible heat pumps for split installation with DC inverter compressor and integrated DHW boiler
Tipo de aparato: Unidad interior con base con depósito acs integrado 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 ST 3.2 HI3 4	OMNIA UE 3.2 4	OMNIA ST 3.2 UI HI3 10
OMNIA ST 3.2 HI3 6	OMNIA UE 3.2 6	OMNIA ST 3.2 UI HI3 10
OMNIA ST 3.2 HI3 8	OMNIA UE 3.2 8	OMNIA ST 3.2 UI HI3 10
OMNIA ST 3.2 HI3 10	OMNIA UE 3.2 10	OMNIA ST 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 *



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

** Ferroli S.p.A. richiede periodicamente a tutti i suoi fornitori di materie prime e componenti, le dichiarazioni aggiornate sulla presenza di sostanze chimiche indicate nell'Elenco delle Sostanze Estremamente Preoccupanti (Candidate List of SVHC) e relative integrazioni annuali. Attualmente le dichiarazioni dei nostri fornitori sono state ricevute dopo l'aggiornamento della Candidate List del 14 giugno 2023.*

** 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 14th 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 60335-2-21:2021+A1:2021

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

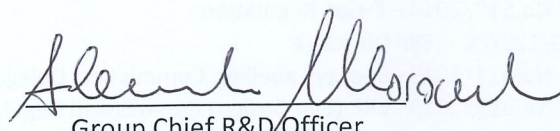
Qualsiasi modifica all'apparecchio e/o qualsiasi utilizzo non conforme alle istruzioni comporterà l'invalidazione della presente Dichiarazione di Conformità.

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



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 basamento con bollitore acs integrato per pompe di calore reversibili split con compressore DC inverter
Appliance type: Reversible heat pumps for split installation with DC inverter compressor and integrated DHW boiler
Tipo de aparato: Unidad interior con base con depósito acs integrado 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 ST 3.2 HI3 12	OMNIA UE 3.2 12	OMNIA ST 3.2 UI HI3 16
OMNIA ST 3.2 HI3 14	OMNIA UE 3.2 14	OMNIA ST 3.2 UI HI3 16
OMNIA ST 3.2 HI3 16	OMNIA UE 3.2 16	OMNIA ST 3.2 UI HI3 16
OMNIA ST 3.2 HI6 12T	OMNIA UE 3.2 12T	OMNIA ST 3.2 UI HI6 16T
OMNIA ST 3.2 HI6 14T	OMNIA UE 3.2 14T	OMNIA ST 3.2 UI HI6 16T
OMNIA ST 3.2 HI6 16T	OMNIA UE 3.2 16T	OMNIA ST 3.2 UI HI6 16T

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
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
2011/65/EU and (EU) 2015/863 – RoHS Directive
(EC) No 1907/2006 – REACH Regulation *

** Ferrolì S.p.A. richiede periodicamente a tutti i suoi fornitori di materie prime e componenti, le dichiarazioni aggiornate sulla presenza di sostanze chimiche indicate nell'Elenco delle Sostanze Estremamente Preoccupanti (Candidate List of SVHC) e relative integrazioni annuali. Attualmente le dichiarazioni dei nostri fornitori sono state ricevute dopo l'aggiornamento della Candidate List del 14 giugno 2023.*

** Ferrolì 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 14th June 2023.*

** Ferrolì 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 60335-2-21:2021+A1:2021
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

PED Directive

EN 378-2:2016

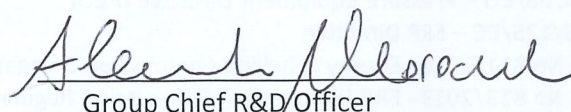
Qualsiasi modifica all'apparecchio e/o qualsiasi utilizzo non conforme alle istruzioni comporterà l'invalidazione della presente Dichiarazione di Conformità.

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

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		

Model: OMNIA ST 3.2 4

Configure model	
Model name	OMNIA ST 3.2 4
Application	Heating + DHW + low 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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.70 kW	4.50 kW
SEER	4.96	7.73
P _{dc} T _j = 35°C	4.66 kW	4.51 kW
EER T _j = 35°C	3.52	5.54
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	3.66 kW	3.44 kW
EER T _j = 30°C	4.76	7.23
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	2.21 kW	2.19 kW
EER T _j = 25°C	5.72	8.94
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	0.94 kW	1.13 kW
EER T _j = 20°C	5.72	10.48
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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	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	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

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

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

	Low temperature	Medium temperature
η_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

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

COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.86	1.91
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	145 %
COP	3.43
Heating up time	3:52 h:min
Standby power input	34.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	102 %
COP	2.40
Heating up time	5:32 h:min
Standby power input	49.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	123 %
COP	2.91
Heating up time	4:34 h:min
Standby power input	40.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Model: OMNIA ST 3.2 6

Configure model	
Model name	OMNIA ST 3.2 6
Application	Heating + DHW + low 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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	6.30 kW	6.50 kW
SEER	5.31	8.16
P _{dc} T _j = 35°C	6.35 kW	6.55 kW
EER T _j = 35°C	2.93	4.69
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	4.76 kW	4.84 kW
EER T _j = 30°C	4.53	7.16
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	3.02 kW	3.26 kW
EER T _j = 25°C	6.32	9.64
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	1.39 kW	1.41 kW
EER T _j = 20°C	7.20	11.48
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
P _{TO}	10 W	10 W
P _{SB}	14 W	14 W
P _{CK}	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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 $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.86	1.91
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	150 %
COP	3.52
Heating up time	3:35 h:min
Standby power input	35.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	104 %
COP	2.45
Heating up time	5:10 h:min
Standby power input	51.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	126 %
COP	2.97
Heating up time	4:16 h:min
Standby power input	42.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

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		

Model: OMNIA ST 3.2 8

Configure model	
Model name	OMNIA ST 3.2 8
Application	Heating + DHW + low 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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	7.40 kW	8.40 kW
SEER	5.78	8.91
P _{dc} T _j = 35°C	7.38 kW	8.37 kW
EER T _j = 35°C	3.39	5.09
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	5.72 kW	6.47 kW
EER T _j = 30°C	4.71	7.02
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	3.62 kW	4.31 kW
EER T _j = 25°C	6.65	10.67
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	1.64 kW	1.80 kW
EER T _j = 20°C	8.55	13.61
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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 $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	3.04	1.84
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.48
Heating up time	3:26 h:min
Standby power input	37.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.42
Heating up time	4:56 h:min
Standby power input	53.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	125 %
COP	2.92
Heating up time	4:05 h:min
Standby power input	44.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Model: OMNIA ST 3.2 10

Configure model	
Model name	OMNIA ST 3.2 10
Application	Heating + DHW + low 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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	8.70 kW	10.00 kW
SEER	5.93	8.73
P _{dc} T _j = 35°C	8.73 kW	10.01 kW
EER T _j = 35°C	3.21	4.64
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	6.68 kW	7.71 kW
EER T _j = 30°C	4.47	6.45
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	4.26 kW	5.03 kW
EER T _j = 25°C	7.02	10.36
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	1.94 kW	2.32 kW
EER T _j = 20°C	9.54	14.98
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
P _{TO}	10 W	10 W
P _{SB}	14 W	14 W
P _{CK}	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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 $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.96	1.83
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	150 %
COP	3.50
Heating up time	3:19 h:min
Standby power input	39.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	104 %
COP	2.44
Heating up time	4:46 h:min
Standby power input	56.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	126 %
COP	2.95
Heating up time	3:57 h:min
Standby power input	46.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

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 ST 3.2 12

Configure model

Model name	OMNIA ST 3.2 12
Application	Heating + DHW + low 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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	11.30 kW	11.80 kW
SEER	4.83	7.06
P _{dc} T _j = 35°C	11.31 kW	11.77 kW
EER T _j = 35°C	2.61	3.87
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	8.76 kW	9.21 kW
EER T _j = 30°C	3.93	5.50
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	5.81 kW	5.74 kW
EER T _j = 25°C	5.73	8.66
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	2.63 kW	3.33 kW
EER T _j = 20°C	6.75	10.07
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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 $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.77	1.79
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	150 %
COP	3.56
Heating up time	3:46 h:min
Standby power input	49.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.55
Heating up time	5:15 h:min
Standby power input	69.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.12
Heating up time	4:18 h:min
Standby power input	56.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Model: OMNIA ST 3.2 14

Configure model

Model name	OMNIA ST 3.2 14
Application	Heating + DHW + low 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

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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	12.20 kW	13.30 kW
SEER	4.81	6.86
P _{dc} T _j = 35°C	12.19 kW	13.30 kW
EER T _j = 35°C	2.46	3.47
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	9.41 kW	10.20 kW
EER T _j = 30°C	3.85	5.26
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	6.16 kW	6.57 kW
EER T _j = 25°C	5.80	8.45
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	2.63 kW	3.33 kW
EER T _j = 20°C	6.74	10.07
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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 $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.59	1.76
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	148 %
COP	3.51
Heating up time	3:32 h:min
Standby power input	51.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.51
Heating up time	4:56 h:min
Standby power input	72.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	129 %
COP	3.06
Heating up time	4:03 h:min
Standby power input	59.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Model: OMNIA ST 3.2 16

Configure model

Model name	OMNIA ST 3.2 16
Application	Heating + DHW + low 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	3x230V 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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	14.30 kW	15.40 kW
SEER	4.63	6.71
P _{dc} T _j = 35°C	14.31 kW	15.40 kW
EER T _j = 35°C	2.47	3.50
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	10.68 kW	11.42 kW
EER T _j = 30°C	3.63	5.14
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	6.76 kW	7.27 kW
EER T _j = 25°C	5.27	7.83
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	3.41 kW	3.40 kW
EER T _j = 20°C	7.29	10.35
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
P _{TO}	10 W	10 W
P _{SB}	14 W	14 W
P _{CK}	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	149 %
COP	3.53
Heating up time	3:23 h:min
Standby power input	54.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.53
Heating up time	4:43 h:min
Standby power input	76.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.09
Heating up time	3:52 h:min
Standby power input	62.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Model: OMNIA ST 3.2 12T

Configure model	
Model name	OMNIA ST 3.2 12T
Application	Heating + DHW + low 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

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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	11.30 kW	11.80 kW
SEER	4.83	7.06
P _{dc} T _j = 35°C	11.31 kW	11.77 kW
EER T _j = 35°C	2.61	3.87
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	8.76 kW	9.21 kW
EER T _j = 30°C	3.93	5.50
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	5.81 kW	5.74 kW
EER T _j = 25°C	5.73	8.66
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	2.63 kW	3.33 kW
EER T _j = 20°C	6.75	10.07
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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 $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.77	1.79
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	150 %
COP	3.56
Heating up time	3:46 h:min
Standby power input	49.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.55
Heating up time	5:15 h:min
Standby power input	69.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.12
Heating up time	4:18 h:min
Standby power input	56.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Model: OMNIA ST 3.2 14T

Configure model	
Model name	OMNIA ST 3.2 14T
Application	Heating + DHW + low 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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	12.20 kW	13.30 kW
SEER	4.81	6.86
P _{dc} T _j = 35°C	12.19 kW	13.30 kW
EER T _j = 35°C	2.46	3.47
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	9.41 kW	10.20 kW
EER T _j = 30°C	3.85	5.26
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	6.16 kW	6.57 kW
EER T _j = 25°C	5.80	8.45
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	2.63 kW	3.33 kW
EER T _j = 20°C	6.74	10.07
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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 $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.59	1.76
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	148 %
COP	3.51
Heating up time	3:32 h:min
Standby power input	51.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.51
Heating up time	4:56 h:min
Standby power input	72.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	129 %
COP	3.06
Heating up time	4:03 h:min
Standby power input	59.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Model: OMNIA ST 3.2 16T

Configure model	
Model name	OMNIA ST 3.2 16T
Application	Heating + DHW + low 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

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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	14.30 kW	15.40 kW
SEER	4.63	6.71
P _{dc} T _j = 35°C	14.31 kW	15.40 kW
EER T _j = 35°C	2.47	3.50
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	10.68 kW	11.42 kW
EER T _j = 30°C	3.63	5.14
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	6.76 kW	7.27 kW
EER T _j = 25°C	5.27	7.83
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	3.41 kW	3.40 kW
EER T _j = 20°C	7.29	10.35
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
P _{TO}	10 W	10 W
P _{SB}	14 W	14 W
P _{CK}	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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

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

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

	Low temperature	Medium temperature
η_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

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

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

	Low temperature	Medium temperature
η_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 $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.48	1.80
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	149 %
COP	3.53
Heating up time	3:23 h:min
Standby power input	54.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.53
Heating up time	4:43 h:min
Standby power input	76.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.09
Heating up time	3:52 h:min
Standby power input	62.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l