Subtype Ferroli Omnia S 3.2 4-6 - Omnia ST 3.2 4-6

Certificate Holder	Ferroli S.p.A.
Address	Via Ritonda 78/A
ZIP	37047
City	San Bonifacio (VR)
Country	IT
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Ferroli Omnia S 3.2 4-6 - Omnia ST 3.2 4-6
Registration number	011-1W0597
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 17.05.2024

Model OMNIA S 3.2 4	
Model name	OMNIA S 3.2 4
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	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 14511-2 | Cooling

	+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 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
ηs	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
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

EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
ηs	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
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	3.72	2.74
COP Tj = -15°C (if TOL	2.57	1.74
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
ηs	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
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

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.70 kW	4.50 kW
SEER	4.96	7.73
Pdc Tj = 35°C	4.66 kW	4.51 kW
EER Tj = 35°C	3.52	5.54
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	3.66 kW	3.44 kW
EER Tj = 30°C	4.76	7.23
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.21 kW	2.19 kW
EER Tj = 25°C	5.72	8.94
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	0.94 kW	1.13 kW
EER Tj = 20°C	5.72	10.48
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	569 kWh	349 kWh

Model OMNIA S 3.2 6	
Model name	OMNIA S 3.2 6
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	

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

EN 14511-2 | Heating		
	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 14511-2 | Cooling		
	+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 12102-1 | Average Climate		
	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 | Average Climate		
	Low temperature	Medium temperature
ηs	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
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

EN 12102-1 | Colder Climate		
	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 | Colder Climate		
	Low temperature	Medium temperature
ηs	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

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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
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	4.59	3.47
COP Tj = -15°C (if TOL	2.53	1.86
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
ηs	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
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

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.30 kW	6.50 kW
SEER	5.31	8.16
Pdc Tj = 35°C	6.35 kW	6.55 kW
EER Tj = 35°C	2.93	4.69
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	4.76 kW	4.84 kW
EER Tj = 30°C	4.53	7.16
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	3.02 kW	3.26 kW
EER Tj = 25°C	6.32	9.64
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.39 kW	1.41 kW
EER Tj = 20°C	7.20	11.48
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	713 kWh	478 kWh

Model OMNIA ST 3.2 4	
Model name	OMNIA ST 3.2 4
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	L
Efficiency ηDHW	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
EN 16147 | Colder Climate	
Declared load profile	L
Efficiency ηDHW	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
EN 16147 | Warmer Climate	
Declared load profile	L
Efficiency ηDHW	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
EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

Defrost test	passed	
Starting and operating test	passed	

EN 14511-2 | Heating		
	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 14511-2 | Cooling		
	+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 12102-1 | Average Climate		
	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 | Average Climate		
	Low temperature	Medium temperature
ηs	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
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

EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
ηs	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
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

This information was generated by the HP KEYMARK database on 17.05.2024

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	3.72	2.74
COP Tj = -15°C (if TOL	2.57	1.74
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
ηs	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
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

This information was generated by the HP KEYMARK database on 17.05.2024

Annual energy consumption Qhe	1146 kWh	1621 kWh
EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.70 kW	4.50 kW
SEER	4.96	7.73
Pdc Tj = 35°C	4.66 kW	4.51 kW
EER Tj = 35°C	3.52	5.54
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	3.66 kW	3.44 kW
EER Tj = 30°C	4.76	7.23
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.21 kW	2.19 kW
EER Tj = 25°C	5.72	8.94
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	0.94 kW	1.13 kW
EER Tj = 20°C	5.72	10.48
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	569 kWh	349 kWh

Model OMNIA ST 3.2 6	
Model name	OMNIA ST 3.2 6
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	L
Efficiency ηDHW	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
EN 16147 | Colder Climate	
Declared load profile	L
Efficiency ηDHW	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
EN 16147 | Warmer Climate	
Declared load profile	L
Efficiency ηDHW	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
EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

Defrost test	passed	
Starting and operating test	passed	

EN 14511-2 | Heating		
	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 14511-2 | Cooling		
	+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 12102-1 | Average Climate		
	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 | Average Climate		
	Low temperature	Medium temperature
ηs	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
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

EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
ηs	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
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

This information was generated by the HP KEYMARK database on 17.05.2024

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	4.59	3.47
COP Tj = -15°C (if TOL	2.53	1.86
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
ηs	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
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

This information was generated by the HP KEYMARK database on 17.05.2024

Annual energy consumption Qhe	1244 kWh	1640 kWh
EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.30 kW	6.50 kW
SEER	5.31	8.16
Pdc Tj = 35°C	6.35 kW	6.55 kW
EER Tj = 35°C	2.93	4.69
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	4.76 kW	4.84 kW
EER Tj = 30°C	4.53	7.16
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	3.02 kW	3.26 kW
EER Tj = 25°C	6.32	9.64
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.39 kW	1.41 kW
EER Tj = 20°C	7.20	11.48
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	713 kWh	478 kWh