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

Model OMNIA S 3.2 4	
Model name	OMNIA S 3.2 4
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
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)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
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
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)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
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

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 ST 3.2 6	
Model name	OMNIA ST 3.2 6
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
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

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