Subtype VERSATI V Monobloc 12/14	
Certificate Holder	Gree Electric Appliances, Inc. of Zhuhai
Address	West Jinji Rd
ZIP	519070
City	Qianshan, Zhuhai, Guangdong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	VERSATI V Monobloc 12/14
Registration number	011-1W1087
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.2 kg
Certification Date	22.08.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Intertek Testing Services Shenzhen LTD. Guangzhou Branch, CN

Model GRS-CQ12Pd/NpG4-E	
Model name	GRS-CQ12Pd/NpG4-E
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
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	XL
Efficiency ηDHW	112 %
COP	2.67
Heating up time	1:31 h:min
Standby power input	56.0 W
Reference hot water temperature	51.3 °C
Mixed water at 40°C	316 l
EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	88 %
COP	2.12
Heating up time	1:56 h:min
Standby power input	72.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	319 l
EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	122 %
COP	2.92
Heating up time	1:15 h:min
Standby power input	51.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	320 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	12.00 kW	12.00 kW
El input	2.42 kW	3.87 kW
COP	4.95	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	187 %	140 %
Prated	12.00 kW	12.00 kW
SCOP	4.75	3.57
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.67 kW	10.86 kW
COP Tj = -7°C	2.74	2.19
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.77 kW	7.09 kW
COP Tj = +2°C	4.68	3.51
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.55 kW	4.43 kW
COP Tj = +7°C	6.76	4.76
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	3.19 kW	2.98 kW
COP Tj = 12°C	7.10	5.49
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	10.67 kW	10.86 kW
COP Tj = Tbiv	2.74	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.82 kW	11.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	2.22
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.18 kW	0.39 kW
Annual energy consumption Qhe	5235 kWh	7049 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	156 %	121 %
Prated	11.00 kW	11.00 kW
SCOP	3.98	3.10
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.08 kW	7.01 kW
COP Tj = -7°C	3.30	2.40
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	4.14 kW	4.32 kW
COP Tj = +2°C	4.89	3.77
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	2.72 kW	2.76 kW
COP Tj = +7°C	5.70	4.75
Cdh Tj = +7 °C	0.950	0.950
Pdh Tj = 12°C	3.18 kW	2.97 kW
COP Tj = 12°C	6.84	5.68
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	8.74 kW	8.76 kW
COP Tj = Tbiv	2.51	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.94 kW	6.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.12	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.06 kW	4.14 kW
Annual energy consumption Qhe	6624 kWh	8532 kWh
Pdh Tj = -15°C (if TOL	8.74	8.76
COP Tj = -15°C (if TOL	2.51	2.16

Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	246 %	180 %
Prated	12.00 kW	12.00 kW
SCOP	6.23	4.58
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.82 kW	11.67 kW
COP Tj = +2°C	3.10	2.42
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	7.53 kW	9.06 kW
COP Tj = +7°C	5.81	3.92
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	3.47 kW	3.65 kW
COP Tj = 12°C	7.43	5.53
Cdh Tj = +12 °C	0.930	0.960
Pdh Tj = Tbiv	11.82 kW	11.67 kW
COP Tj = Tbiv	3.10	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.82 kW	11.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2538 kWh	3411 kWh

Model GRS-CQ12Pd/NpG4-M	
Model name	GRS-CQ12Pd/NpG4-M
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	112 %
COP	2.67
Heating up time	1:31 h:min
Standby power input	56.0 W
Reference hot water temperature	51.3 °C
Mixed water at 40°C	316 l
EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	89 %
COP	2.12
Heating up time	1:56 h:min
Standby power input	72.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	319 l
EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.92
Heating up time	1:15 h:min
Standby power input	51.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	320 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	12.00 kW	12.00 kW
El input	2.42 kW	3.87 kW
COP	4.95	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	187 %	140 %
Prated	12.00 kW	12.00 kW
SCOP	4.76	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.75 kW	10.52 kW
COP Tj = -7°C	2.69	2.11
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.81 kW	6.90 kW
COP Tj = +2°C	4.71	3.55
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	4.48 kW	4.37 kW
COP Tj = +7°C	6.78	4.71
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	3.18 kW	2.98 kW
COP Tj = 12°C	7.09	5.49
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	10.75 kW	10.52 kW
COP Tj = Tbiv	2.69	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.62 kW	11.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	2.21
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	0.46 kW
Annual energy consumption Qhe	5272 kWh	6860 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	155 %	121 %
Prated	11.00 kW	11.00 kW
SCOP	4.00	3.10
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.08 kW	7.00 kW
COP Tj = -7°C	3.31	2.40
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.11 kW	4.31 kW
COP Tj = +2°C	4.90	3.76
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	2.72 kW	2.76 kW
COP Tj = +7°C	5.70	4.76
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.17 kW	2.97 kW
COP Tj = 12°C	6.83	5.68
Cdh Tj = +12 °C	0.950	0.950
Pdh Tj = Tbiv	8.75 kW	8.75 kW
COP Tj = Tbiv	2.52	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.96 kW	6.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.04 kW	4.14 kW
Annual energy consumption Qhe	6621 kWh	8525 kWh
Pdh Tj = -15°C (if TOL	8.75	8.75
COP Tj = -15°C (if TOL	2.52	2.16

Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	246 %	180 %
Prated	12.00 kW	12.00 kW
SCOP	6.23	4.58
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.69 kW	11.69 kW
COP Tj = +2°C	3.09	2.42
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	7.53 kW	7.54 kW
COP Tj = +7°C	5.82	4.15
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	3.48 kW	3.61 kW
COP Tj = 12°C	7.43	5.57
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	11.69 kW	11.69 kW
COP Tj = Tbiv	3.09	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.69 kW	11.69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.09	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2508 kWh	3408 kWh

Model GRS-CQ14Pd/NpG4-E	
Model name	GRS-CQ14Pd/NpG4-E
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
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	XL
Efficiency ηDHW	112 %
COP	2.67
Heating up time	1:31 h:min
Standby power input	56.0 W
Reference hot water temperature	51.3 °C
Mixed water at 40°C	316 l
EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	88 %
COP	2.12
Heating up time	1:56 h:min
Standby power input	72.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	319 l
EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	122 %
COP	2.92
Heating up time	1:15 h:min
Standby power input	51.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	320 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	14.00 kW	14.00 kW
El input	2.98 kW	4.67 kW
COP	4.70	3.00

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	186 %	139 %
Prated	13.00 kW	13.00 kW
SCOP	4.73	3.55
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.14 kW	11.20 kW
COP Tj = -7°C	2.68	2.09
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.77 kW	7.09 kW
COP Tj = +2°C	4.68	3.51
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.55 kW	4.43 kW
COP Tj = +7°C	6.76	4.76
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	3.19 kW	2.98 kW
COP Tj = 12°C	7.10	5.49
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	11.14 kW	11.20 kW
COP Tj = Tbiv	2.68	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.82 kW	11.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	2.22
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.18 kW	1.39 kW
Annual energy consumption Qhe	5489 kWh	7335 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	155 %	120 %
Prated	13.00 kW	13.00 kW
SCOP	3.95	3.08
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.68 kW	7.17 kW
COP Tj = -7°C	3.30	2.40
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	4.34 kW	4.66 kW
COP Tj = +2°C	4.86	3.76
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	2.83 kW	2.97 kW
COP Tj = +7°C	5.69	4.62
Cdh Tj = +7 °C	0.950	0.950
Pdh Tj = 12°C	3.18 kW	2.99 kW
COP Tj = 12°C	6.84	5.71
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	10.21 kW	10.50 kW
COP Tj = Tbiv	2.52	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.94 kW	6.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.12	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.06 kW	6.14 kW
Annual energy consumption Qhe	7787 kWh	10254 kWh
Pdh Tj = -15°C (if TOL	10.21	10.50
COP Tj = -15°C (if TOL	2.52	2.22

Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	232 %	170 %
Prated	13.00 kW	14.00 kW
SCOP	5.88	4.33
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.82 kW	12.67 kW
COP Tj = +2°C	3.10	2.33
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.67 kW	9.06 kW
COP Tj = +7°C	5.75	3.92
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	3.47 kW	3.65 kW
COP Tj = 12°C	7.43	5.53
Cdh Tj = +12 °C	0.930	0.960
Pdh Tj = Tbiv	8.67 kW	9.06 kW
COP Tj = Tbiv	5.75	3.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.82 kW	12.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.18 kW	1.33 kW
Annual energy consumption Qhe	3060 kWh	4348 kWh

Model GRS-CQ14Pd/NpG4-M	
Model name	GRS-CQ14Pd/NpG4-M
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	112 %
COP	2.67
Heating up time	1:31 h:min
Standby power input	56.0 W
Reference hot water temperature	51.3 °C
Mixed water at 40°C	316 l
EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	112 %
COP	2.67
Heating up time	1:31 h:min
Standby power input	56.0 W
Reference hot water temperature	51.3 °C
Mixed water at 40°C	316 l
EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.92
Heating up time	1:15 h:min
Standby power input	51.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	320 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	14.00 kW	14.00 kW
El input	2.98 kW	4.67 kW
COP	4.70	3.00

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	187 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.75	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.30 kW	11.66 kW
COP Tj = -7°C	2.66	2.12
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.80 kW	6.90 kW
COP Tj = +2°C	4.70	3.55
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	4.47 kW	4.37 kW
COP Tj = +7°C	6.78	4.71
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	3.13 kW	2.97 kW
COP Tj = 12°C	7.11	5.47
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	11.30 kW	11.66 kW
COP Tj = Tbiv	2.66	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.62 kW	11.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	2.21
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.38 kW	1.46 kW
Annual energy consumption Qhe	5560 kWh	7615 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	156 %	121 %
Prated	13.00 kW	13.00 kW
SCOP	3.98	3.11
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.18 kW	7.19 kW
COP Tj = -7°C	3.31	2.40
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.41 kW	4.42 kW
COP Tj = +2°C	4.86	3.77
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	2.82 kW	2.86 kW
COP Tj = +7°C	5.71	4.76
Cdh Tj = +7 °C	0.950	0.950
Pdh Tj = 12°C	3.17 kW	2.96 kW
COP Tj = 12°C	6.83	5.77
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	10.30 kW	10.41 kW
COP Tj = Tbiv	2.53	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.95 kW	6.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.05 kW	6.14 kW
Annual energy consumption Qhe	7836 kWh	10131 kWh
Pdh Tj = -15°C (if TOL	10.30	10.41
COP Tj = -15°C (if TOL	2.53	2.22

Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	233 %	168 %
Prated	13.00 kW	14.00 kW
SCOP	5.91	4.27
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.68 kW	11.69 kW
COP Tj = +2°C	3.09	2.42
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.52 kW	9.00 kW
COP Tj = +7°C	5.77	3.90
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	3.47 kW	3.61 kW
COP Tj = 12°C	7.43	5.57
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	8.52 kW	9.00 kW
COP Tj = Tbiv	5.77	3.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.68 kW	11.69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.09	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	80 °C	80 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.32 kW	2.31 kW
Annual energy consumption Qhe	2998 kWh	4377 kWh