

Subtype VERSATI AIO G3 12/14kW

Certificate Holder	Gree Electric Appliances, Inc. of Zhuhai
Address	West Jinji Rd
ZIP	519070
City	Qianshan, Zhuhai, Guangdong
Country	CN
Certification Body	BRE Global Limited
Subtype title	VERSATI AIO G3 12/14kW
Registration number	041-K004-32
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	17.06.2025
Testing basis	Heat Pump Keymark Scheme Rules Rev 15
Testing laboratory	Intertek Testing Services Shenzhen LTD. Guangzhou Branch, CN

Model GRS-CQ12PdG/NhH3-E

Model name	GRS-CQ12PdG/NhH3-E
Application	Heating + DHW + low temp
Units	Indoor, 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	L
Efficiency η_{DHW}	112 %
COP	2.61
Heating up time	1h:7min h:min
Standby power input	52.5 W
Reference hot water temperature	54.6 °C
Mixed water at 40°C	236 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.23
Heating up time	1h:18min h:min
Standby power input	57.5 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	234 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	116 %
COP	2.70
Heating up time	1h:4min h:min
Standby power input	51.7 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	238 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	12.20 kW	12.00 kW
El input	2.42 kW	3.94 kW
COP	5.05	3.05

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	139 %
Prated	12.00 kW	12.00 kW
SCOP	4.75	3.55
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.98 kW	10.99 kW
COP Tj = -7°C	3.39	2.23
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.06 kW	6.82 kW
COP Tj = +2°C	4.57	3.43
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	4.52 kW	4.51 kW
COP Tj = +7°C	6.07	4.51
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	4.56 kW	4.81 kW
COP Tj = 12°C	6.80	6.50
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	10.98 kW	10.99 kW
COP Tj = Tbiv	3.39	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.18 kW	11.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	0.02 kW
Annual energy consumption Qhe	5379 kWh	7228 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	162 %	127 %
Prated	12.00 kW	11.00 kW
SCOP	4.13	3.25
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.50 kW	7.02 kW
COP Tj = -7°C	3.16	2.48
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.84 kW	4.44 kW
COP Tj = +2°C	5.44	4.29
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.95 kW	3.74 kW
COP Tj = +7°C	5.64	4.40
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	4.62 kW	4.64 kW
COP Tj = 12°C	7.28	6.05
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	9.87 kW	9.03 kW
COP Tj = Tbiv	2.62	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.02	1.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	3.20 kW	2.75 kW
Annual energy consumption Qhe	7209 kWh	8392 kWh
Pdh Tj = -15°C (if TOL)	9.87	9.03
COP Tj = -15°C (if TOL)	2.62	1.96
Cdh Tj = -15 °C		

EN 14825 | Warmer Climate

Low temperature	Medium temperature
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ηs	265 %	166 %
Prated	12.00 kW	13.00 kW
SCOP	6.70	4.23
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.45 kW	13.19 kW
COP Tj = +2°C	3.33	2.33
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.44 kW	9.14 kW
COP Tj = +7°C	6.38	3.89
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.04 kW	4.09 kW
COP Tj = 12°C	8.04	5.00
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	12.45 kW	13.19 kW
COP Tj = Tbiv	3.33	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.45 kW	13.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.33	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	2474 kWh	4169 kWh

Model GRS-CQ14PdG/NhH3-E

Model name	GRS-CQ14PdG/NhH3-E
Application	Heating + DHW + low temp
Units	Indoor, 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	L
Efficiency η_{DHW}	112 %
COP	2.61
Heating up time	1h:7min h:min
Standby power input	52.5 W
Reference hot water temperature	54.6 °C
Mixed water at 40°C	236 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.23
Heating up time	1h:18min h:min
Standby power input	57.5 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	234 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	116 %
COP	2.70
Heating up time	1h:4min h:min
Standby power input	51.7 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	238 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	14.45 kW	14.00 kW
El input	3.17 kW	4.44 kW
COP	4.56	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	185 %	144 %
Prated	13.00 kW	13.00 kW
SCOP	4.70	3.68
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.18 kW	11.23 kW
COP Tj = -7°C	3.32	2.91
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.45 kW	6.82 kW
COP Tj = +2°C	4.49	3.43
Cdh Tj = +2 °C	0.970	0.990
Pdh Tj = +7°C	4.62 kW	4.58 kW
COP Tj = +7°C	6.04	4.30
Cdh Tj = +7 °C	0.930	0.970
Pdh Tj = 12°C	4.56 kW	4.80 kW
COP Tj = 12°C	6.87	6.52
Cdh Tj = +12 °C	0.900	0.960
Pdh Tj = Tbiv	11.18 kW	11.23 kW
COP Tj = Tbiv	3.32	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.19 kW	11.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	0.81 kW	1.02 kW
Annual energy consumption Qhe	5549 kWh	7124 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	117 %
Prated	13.00 kW	12.00 kW
SCOP	4.15	3.00
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.50 kW	7.02 kW
COP Tj = -7°C	3.16	2.48
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.86 kW	4.46 kW
COP Tj = +2°C	5.46	3.61
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	3.95 kW	3.74 kW
COP Tj = +7°C	5.64	4.40
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	4.62 kW	4.64 kW
COP Tj = 12°C	7.28	6.05
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	10.66 kW	9.83 kW
COP Tj = Tbiv	2.73	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.02	1.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	4.20 kW	3.75 kW
Annual energy consumption Qhe	7750 kWh	9858 kWh
Pdh Tj = -15°C (if TOL)	10.66	9.83
COP Tj = -15°C (if TOL)	2.73	1.89
Cdh Tj = -15 °C		

EN 14825 | Warmer Climate

Low temperature	Medium temperature
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ηs	266 %	171 %
Prated	13.00 kW	14.00 kW
SCOP	6.73	4.35
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.84 kW	14.08 kW
COP Tj = +2°C	3.30	2.37
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.46 kW	9.57 kW
COP Tj = +7°C	6.39	3.89
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	5.04 kW	4.21 kW
COP Tj = 12°C	8.04	5.30
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	12.84 kW	14.08 kW
COP Tj = Tbiv	3.30	2.37
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.84 kW	14.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.30	2.37
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	2549 kWh	4322 kWh

Model GRS-CQ12PdG/NhH3-M

Model name	GRS-CQ12PdG/NhH3-M
Application	Heating + DHW + low temp
Units	Indoor, 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	L
Efficiency η_{DHW}	112 %
COP	2.61
Heating up time	1h:7min h:min
Standby power input	52.5 W
Reference hot water temperature	54.6 °C
Mixed water at 40°C	236 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.23
Heating up time	1h:18min h:min
Standby power input	57.5 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	234 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	116 %
COP	2.70
Heating up time	1h:4min h:min
Standby power input	51.7 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	238 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	12.20 kW	12.00 kW
El input	2.42 kW	3.94 kW
COP	5.05	3.05

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	133 %
Prated	12.00 kW	12.00 kW
SCOP	4.55	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.03 kW	11.04 kW
COP Tj = -7°C	3.24	2.13
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.11 kW	6.87 kW
COP Tj = +2°C	4.37	3.28
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.57 kW	4.56 kW
COP Tj = +7°C	5.82	4.33
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	4.61 kW	4.81 kW
COP Tj = 12°C	6.52	6.16
Cdh Tj = +12 °C	0.960	0.910
Pdh Tj = Tbiv	11.03 kW	11.04 kW
COP Tj = Tbiv	3.24	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.24 kW	12.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	5644 kWh	7582 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	157 %	116 %
Prated	12.00 kW	11.00 kW
SCOP	4.00	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.59 kW	7.07 kW
COP Tj = -7°C	3.14	2.48
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.95 kW	4.49 kW
COP Tj = +2°C	5.18	3.54
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	4.04 kW	3.79 kW
COP Tj = +7°C	5.38	4.33
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	4.71 kW	4.69 kW
COP Tj = 12°C	6.90	5.92
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	9.92 kW	9.08 kW
COP Tj = Tbiv	2.56	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.89 kW	8.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.37
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	3.11 kW	2.70 kW
Annual energy consumption Qhe	7487 kWh	9189 kWh
Pdh Tj = -15°C (if TOL)	9.92	9.08
COP Tj = -15°C (if TOL)	2.56	1.88
Cdh Tj = -15 °C		

EN 14825 | Warmer Climate

Low temperature	Medium temperature
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ηs	254 %	162 %
Prated	12.00 kW	13.00 kW
SCOP	6.43	4.13
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.49 kW	13.24 kW
COP Tj = +2°C	3.18	2.27
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.49 kW	9.19 kW
COP Tj = +7°C	6.09	3.80
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	5.09 kW	4.13 kW
COP Tj = 12°C	7.70	4.91
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	12.49 kW	13.24 kW
COP Tj = Tbiv	3.18	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.49 kW	13.24 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.18	2.27
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	2595 kWh	4268 kWh

Model GRS-CQ14PdG/NhH3-M

Model name	GRS-CQ14PdG/NhH3-M
Application	Heating + DHW + low temp
Units	Indoor, 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	L
Efficiency η_{DHW}	112 %
COP	2.61
Heating up time	1h:7min h:min
Standby power input	52.5 W
Reference hot water temperature	54.6 °C
Mixed water at 40°C	236 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.23
Heating up time	1h:18min h:min
Standby power input	57.5 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	234 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	116 %
COP	2.70
Heating up time	1h:4min h:min
Standby power input	51.7 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	238 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	14.50 kW	14.00 kW
El input	3.02 kW	4.52 kW
COP	4.80	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	131 %
Prated	13.00 kW	13.00 kW
SCOP	4.50	3.35
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.23 kW	11.28 kW
COP Tj = -7°C	3.18	2.10
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.50 kW	6.87 kW
COP Tj = +2°C	4.29	3.28
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.70 kW	4.63 kW
COP Tj = +7°C	5.80	4.13
Cdh Tj = +7 °C	0.950	0.950
Pdh Tj = 12°C	4.61 kW	4.85 kW
COP Tj = 12°C	6.58	6.24
Cdh Tj = +12 °C	0.910	0.910
Pdh Tj = Tbiv	11.23 kW	11.28 kW
COP Tj = Tbiv	3.18	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.19 kW	12.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	0.81 kW	0.97 kW
Annual energy consumption Qhe	5815 kWh	7850 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	155 %	115 %
Prated	13.00 kW	12.00 kW
SCOP	3.95	2.95
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.60 kW	7.07 kW
COP Tj = -7°C	3.06	2.43
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.95 kW	4.51 kW
COP Tj = +2°C	5.18	3.54
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	4.04 kW	3.79 kW
COP Tj = +7°C	5.38	4.33
Cdh Tj = +7 °C	0.950	0.940
Pdh Tj = 12°C	4.71 kW	4.69 kW
COP Tj = 12°C	6.90	5.92
Cdh Tj = +12 °C	0.950	0.930
Pdh Tj = Tbiv	10.76 kW	9.88 kW
COP Tj = Tbiv	2.57	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.90 kW	8.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	4.10 kW	3.70 kW
Annual energy consumption Qhe	8183 kWh	10111 kWh
Pdh Tj = -15°C (if TOL)	10.76	9.88
COP Tj = -15°C (if TOL)	2.57	1.84
Cdh Tj = -15 °C		

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	Low temperature	Medium temperature

ηs	253 %	165 %
Prated	13.00 kW	14.00 kW
SCOP	6.40	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.89 kW	14.14 kW
COP Tj = +2°C	3.15	2.26
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.51 kW	9.62 kW
COP Tj = +7°C	6.11	3.80
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.09 kW	4.26 kW
COP Tj = 12°C	7.70	5.09
Cdh Tj = +12 °C	0.950	0.940
Pdh Tj = Tbiv	12.89 kW	14.14 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.89 kW	14.14 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	2.26
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °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	2674 kWh	4481 kWh