Subtype VERSATI V Monobloc 8/10

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 8/10
Registration number	011-1W1086
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1 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-CQ8.0Pd/NpG4-M	
Model name	GRS-CQ8.0Pd/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	121 %
COP	2.81
Heating up time	2:27 h:min
Standby power input	90.3 W
Reference hot water temperature	60.4 °C
Mixed water at 40°C	424 l
EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	100 %
COP	2.32
Heating up time	4:49 h:min
Standby power input	107.7 W
Reference hot water temperature	62.4 °C
Mixed water at 40°C	421 l
EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.92
Heating up time	2:18 h:min
Standby power input	64.4 W
Reference hot water temperature	61.8 °C
Mixed water at 40°C	431 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	8.40 kW	7.20 kW
El input	1.68 kW	2.00 kW
COP	5.00	3.60

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	183 %	145 %
Prated	8.00 kW	7.00 kW
SCOP	4.65	3.74
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.91 kW	5.87 kW
COP Tj = -7°C	2.93	2.32
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.32 kW	3.84 kW
COP Tj = +2°C	4.14	3.73
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	3.06 kW	2.57 kW
COP Tj = +7°C	7.21	4.52
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	2.31 kW	2.46 kW
COP Tj = 12°C	8.85	6.68
Cdh Tj = +12 °C	0.900	0.930
Pdh Tj = Tbiv	6.91 kW	5.87 kW
COP Tj = Tbiv	2.93	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.67 kW	6.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
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	0.33 kW	0.65 kW
Annual energy consumption Qhe	3465 kWh	3692 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	178 %	132 %
Prated	7.00 kW	7.00 kW
SCOP	4.55	3.40
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.06 kW	4.58 kW
COP Tj = -7°C	3.78	2.87
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	2.56 kW	2.55 kW
COP Tj = +2°C	5.51	3.96
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = +7°C	2.93 kW	3.04 kW
COP Tj = +7°C	7.29	5.64
Cdh Tj = +7 °C	0.940	0.950
Pdh Tj = 12°C	2.26 kW	2.14 kW
COP Tj = 12°C	7.92	6.55
Cdh Tj = +12 °C	0.910	0.920
Pdh Tj = Tbiv	5.38 kW	5.69 kW
COP Tj = Tbiv	2.62	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.50 kW	6.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.34	2.00
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	0.50 kW	0.60 kW
Annual energy consumption Qhe	3572 kWh	5064 kWh
Pdh Tj = -15°C (if TOL	5.38	5.69
COP Tj = -15°C (if TOL	2.62	1.94

Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	273 %	196 %
Prated	8.00 kW	8.00 kW
SCOP	6.90	4.98
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.90 kW	7.81 kW
COP Tj = +2°C	3.71	2.53
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.28 kW	5.25 kW
COP Tj = +7°C	6.09	4.13
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	2.48 kW	2.93 kW
COP Tj = 12°C	9.05	7.00
Cdh Tj = +12 °C	0.910	0.940
Pdh Tj = Tbiv	5.28 kW	5.25 kW
COP Tj = Tbiv	6.09	4.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.90 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.53
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	0.10 kW	0.19 kW
Annual energy consumption Qhe	1591 kWh	2191 kWh

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Application	Heating + DHW + low temp
Units	Outdoor
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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
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COP	2.32
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COP	2.92
Heating up time	2:18 h:min
Standby power input	64.4 W
Reference hot water temperature	61.8 °C
Mixed water at 40°C	431 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	10.00 kW	8.50 kW
El input	2.10 kW	2.57 kW
COP	4.75	3.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	147 %
Prated	9.00 kW	8.00 kW
SCOP	4.81	3.74
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.88 kW	6.68 kW
COP Tj = -7°C	2.69	2.25
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.42 kW	3.97 kW
COP Tj = +2°C	4.57	3.79
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	3.02 kW	2.59 kW
COP Tj = +7°C	7.11	4.61
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	2.31 kW	2.46 kW
COP Tj = 12°C	8.85	6.68
Cdh Tj = +12 °C	0.900	0.930
Pdh Tj = Tbiv	7.88 kW	6.68 kW
COP Tj = Tbiv	2.69	2.25
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.02 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.02
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	0.98 kW	0.82 kW
Annual energy consumption Qhe	3830 kWh	4152 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	181 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	4.61	3.37
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.87 kW	5.03 kW
COP Tj = -7°C	3.75	2.87
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	2.86 kW	2.85 kW
COP Tj = +2°C	5.89	3.95
Cdh Tj = +2 °C	0.950	0.970
Pdh Tj = +7°C	2.93 kW	3.05 kW
COP Tj = +7°C	7.29	5.64
Cdh Tj = +7 °C	0.940	0.950
Pdh Tj = 12°C	2.33 kW	2.06 kW
COP Tj = 12°C	7.87	6.37
Cdh Tj = +12 °C	0.920	0.920
Pdh Tj = Tbiv	6.30 kW	6.39 kW
COP Tj = Tbiv	2.62	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.63 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.62
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	1.87 kW	2.37 kW
Annual energy consumption Qhe	4132 kWh	5732 kWh
Pdh Tj = -15°C (if TOL	6.30	6.39
COP Tj = -15°C (if TOL	2.62	2.01

Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	276 %	198 %
Prated	8.00 kW	8.00 kW
SCOP	6.99	5.03
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.35 kW	8.23 kW
COP Tj = +2°C	3.56	2.45
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.28 kW	5.25 kW
COP Tj = +7°C	6.09	4.13
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	2.52 kW	2.93 kW
COP Tj = 12°C	9.01	7.00
Cdh Tj = +12 °C	0.910	0.940
Pdh Tj = Tbiv	8.35 kW	8.23 kW
COP Tj = Tbiv	3.56	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.35 kW	8.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.56	2.45
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	1595 kWh	2184 kWh