

Subtype VERSATI V Monobloc 16

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 16
Registration number	011-1W1088
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.5 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-CQ16Pd/NpG4-E

Model name	GRS-CQ16Pd/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 η_{DHW}	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 η_{DHW}	88 %
COP	2.12
Heating up time	1:56 h:min
Standby power input	59.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	319 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	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	15.50 kW	15.50 kW
El input	3.30 kW	5.16 kW
COP	4.70	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	137 %
Prated	14.00 kW	14.00 kW
SCOP	4.75	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.27 kW	12.50 kW
COP Tj = -7°C	2.64	2.03
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.87 kW	7.25 kW
COP Tj = +2°C	4.44	3.33
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.20 kW	5.29 kW
COP Tj = +7°C	7.54	4.94
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.54 kW	3.26 kW
COP Tj = 12°C	8.93	6.52
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	12.27 kW	12.50 kW
COP Tj = Tbiv	2.64	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.28 kW	11.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	2.29
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	2.72 kW	2.39 kW
Annual energy consumption Q _{he}	6009 kWh	8322 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η _s	148 %	118 %
Prated	13.00 kW	12.00 kW
SCOP	3.78	3.03
T _{biv}	-15 °C	-15 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7°C	8.24 kW	7.85 kW
COP T _j = -7°C	3.24	2.59
C _{dh} T _j = -7 °C	0.980	0.980
P _{dh} T _j = +2°C	4.45 kW	4.78 kW
COP T _j = +2°C	4.34	3.60
C _{dh} T _j = +2 °C	0.940	0.940
P _{dh} T _j = +7°C	2.89 kW	2.90 kW
COP T _j = +7°C	6.34	4.27
C _{dh} T _j = +7 °C	0.900	0.900
P _{dh} T _j = 12°C	3.51 kW	3.34 kW
COP T _j = 12°C	8.31	6.75
C _{dh} T _j = +12 °C	0.940	0.950
P _{dh} T _j = T _{biv}	10.28 kW	9.74 kW
COP T _j = T _{biv}	2.34	1.85
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.39 kW	6.88 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.08	1.36
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.900	0.900
WTOL	80 °C	80 °C
P _{off}	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	5.61 kW	5.12 kW
Annual energy consumption Q _{he}	8202 kWh	9705 kWh
P _{dh} T _j = -15°C (if TOL	10.28	9.74
COP T _j = -15°C (if TOL	2.34	1.85

Cdh Tj = -15 °C	0.900	0.900
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EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	262 %	178 %
Prated	14.00 kW	14.00 kW
SCOP	6.63	4.53
Tbiv	2 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.11 kW	13.17 kW
COP Tj = +2°C	3.13	2.21
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	9.04 kW	9.28 kW
COP Tj = +7°C	5.71	4.07
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	3.79 kW	3.74 kW
COP Tj = 12°C	8.68	5.92
Cdh Tj = +12 °C	0.940	0.960
Pdh Tj = Tbiv	14.11 kW	9.28 kW
COP Tj = Tbiv	3.13	4.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.11 kW	13.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.13	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	0.00 kW	0.83 kW
Annual energy consumption Qhe	2838 kWh	4251 kWh

Model GRS-CQ16Pd/NpG4-M

Model name	GRS-CQ16Pd/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 η_{DHW}	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 η_{DHW}	88 %
COP	2.12
Heating up time	1:56 h:min
Standby power input	59.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	319 l

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COP	2.92
Heating up time	1:15 h:min
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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	15.50 kW	15.50 kW
El input	3.30 kW	5.16 kW
COP	4.70	3.00
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	185 %	134 %
Prated	14.00 kW	14.00 kW
SCOP	4.70	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.24 kW	12.08 kW
COP Tj = -7°C	2.64	2.03
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.40 kW	7.24 kW
COP Tj = +2°C	4.33	3.16
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.20 kW	5.08 kW
COP Tj = +7°C	7.54	4.97
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.54 kW	3.26 kW
COP Tj = 12°C	9.24	6.52
Cdh Tj = +12 °C	0.930	0.950
Pdh Tj = Tbiv	12.24 kW	12.08 kW
COP Tj = Tbiv	2.64	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.27 kW	11.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	2.29
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	2.73 kW	2.39 kW
Annual energy consumption Q _{he}	6062 kWh	8227 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	149 %	118 %
Prated	13.00 kW	12.00 kW
SCOP	3.80	3.03
T _{biv}	-15 °C	-15 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7°C	8.24 kW	7.65 kW
COP T _j = -7°C	3.24	2.60
C _{dh} T _j = -7 °C	0.980	0.980
P _{dh} T _j = +2°C	4.63 kW	4.62 kW
COP T _j = +2°C	4.37	3.60
C _{dh} T _j = +2 °C	0.940	0.940
P _{dh} T _j = +7°C	3.00 kW	2.90 kW
COP T _j = +7°C	6.25	4.27
C _{dh} T _j = +7 °C	0.900	0.900
P _{dh} T _j = 12°C	3.51 kW	3.34 kW
COP T _j = 12°C	8.30	6.75
C _{dh} T _j = +12 °C	0.940	0.950
P _{dh} T _j = T _{biv}	10.93 kW	9.53 kW
COP T _j = T _{biv}	2.51	1.84
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.39 kW	6.86 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.08	1.36
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.900	0.900
WTOL	80 °C	80 °C
P _{off}	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	5.61 kW	5.14 kW
Annual energy consumption Q _{he}	8643 kWh	9484 kWh
P _{dh} T _j = -15°C (if TOL	10.93	9.53
COP T _j = -15°C (if TOL	2.51	1.84

Cdh Tj = -15 °C	0.900	0.900
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EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	262 %	179 %
Prated	14.00 kW	14.00 kW
SCOP	6.63	4.55
Tbiv	2 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.19 kW	13.35 kW
COP Tj = +2°C	3.12	2.29
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	9.04 kW	9.27 kW
COP Tj = +7°C	5.71	4.07
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	3.80 kW	3.74 kW
COP Tj = 12°C	8.68	5.92
Cdh Tj = +12 °C	0.940	0.960
Pdh Tj = Tbiv	14.19 kW	9.27 kW
COP Tj = Tbiv	3.12	4.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.19 kW	13.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.12	2.29
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	0.00 kW	0.65 kW
Annual energy consumption Qhe	2853 kWh	4219 kWh