Subtype Versati monobloc G3/G4 R290 8/10kW

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 monobloc G3/G4 R290 8/10kW
Registration number	041-K004-34
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1 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-CQ8Pd/NpG4-E	
Model name	GRS-CQ8Pd/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	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	202 %	152 %
Prated	8.00 kW	7.00 kW
SCOP	5.13	3.88
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.07 kW	5.90 kW
COP Tj = -7°C	3.03	2.32
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.15 kW	3.62 kW
COP Tj = +2°C	4.91	4.04
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.05 kW	2.57 kW
COP Tj = +7°C	7.23	4.52
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	2.31 kW	2.45 kW
COP Tj = 12°C	8.88	6.70
Cdh Tj = +12 °C	0.900	0.930
Pdh Tj = Tbiv	7.07 kW	5.90 kW
COP Tj = Tbiv	3.03	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.91 kW	6.65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.01
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	0.09 kW	0.35 kW
Annual energy consumption Qhe	3226 kWh	3556 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	178 %	132 %
Prated	7.00 kW	7.00 kW
SCOP	4.53	3.38
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	2.55 kW	2.54 kW
COP Tj = +2°C	5.50	3.95
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = +7°C	2.92 kW	2.99 kW
COP Tj = +7°C	7.30	5.56
Cdh Tj = +7 °C	0.940	0.950
Pdh Tj = 12°C	2.52 kW	2.13 kW
COP Tj = 12°C	7.92	6.55
Cdh Tj = +12 °C	0.910	0.920
Pdh Tj = Tbiv	5.53 kW	5.73 kW
COP Tj = Tbiv	2.73	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.59
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	1.20 kW	1.90 kW
Annual energy consumption Qhe	3693 kWh	5123 kWh
Pdh Tj = -15°C (if TOL	5.53	5.73
COP Tj = -15°C (if TOL	2.73	2.08
Cdh Tj = -15 °C		

EN 14825 | Warmer Climate

	Low temperature	Medium temperature

ηs	278 %	198 %
Prated	8.00 kW	8.00 kW
SCOP	7.03	5.03
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.91 kW	7.81 kW
COP Tj = +2°C	3.68	2.51
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.28 kW	5.24 kW
COP Tj = +7°C	6.11	4.12
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	7.91 kW	7.81 kW
COP Tj = Tbiv	3.68	2.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.91 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.68	2.51
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	1502 kWh	2073 kWh

Model GRS-CQ10PD/NPG4-E	
Model name	GRS-CQ10PD/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	121 %
COP	2.81
Heating up time	2:27 h:min
Standby power input	90.3 W
Reference hot water temperature	60.4 °C
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Declared load profile	XL
Efficiency ηDHW	100 %
COP	2.32
Heating up time	4:49 h:min
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Reference hot water temperature	62.4 °C
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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	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	194 %	152 %
Prated	9.00 kW	8.00 kW
SCOP	4.93	3.88
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.86 kW	6.82 kW
COP Tj = -7°C	2.84	2.25
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.45 kW	3.88 kW
COP Tj = +2°C	4.71	4.04
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.01 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	2.45 kW
COP Tj = 12°C	8.88	6.68
Cdh Tj = +12 °C	0.900	0.930
Pdh Tj = Tbiv	7.86 kW	6.82 kW
COP Tj = Tbiv	2.84	2.25
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.01
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	0.99 kW	0.82 kW
Annual energy consumption Qhe	3722 kWh	4109 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	181 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	4.60	3.35
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.86 kW	5.03 kW
COP Tj = -7°C	3.75	2.86
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	2.85 kW	2.84 kW
COP Tj = +2°C	5.87	3.94
Cdh Tj = +2 °C	0.950	0.970
Pdh Tj = +7°C	2.92 kW	2.96 kW
COP Tj = +7°C	7.30	5.43
Cdh Tj = +7 °C	0.940	0.950
Pdh Tj = 12°C	2.50 kW	2.05 kW
COP Tj = 12°C	7.96	6.36
Cdh Tj = +12 °C	0.910	0.920
Pdh Tj = Tbiv	6.30 kW	6.41 kW
COP Tj = Tbiv	2.61	1.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.12 kW	5.62 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.59
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	1.88 kW	2.38 kW
Annual energy consumption Qhe	4133 kWh	5784 kWh
Pdh Tj = -15°C (if TOL	6.30	6.41
COP Tj = -15°C (if TOL	2.61	1.62
Cdh Tj = -15 °C		

EN 14825 | Warmer Climate

	Low temperature	Medium temperature

ηs	277 %	198 %
Prated	8.00 kW	8.00 kW
SCOP	7.00	5.03
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.35 kW	8.22 kW
COP Tj = +2°C	3.55	2.44
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.28 kW	5.24 kW
COP Tj = +7°C	6.11	4.12
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	8.22 kW
COP Tj = Tbiv	3.55	2.44
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.35 kW	8.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.44
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	1592 kWh	2182 kWh