

## Subtype Versati monobloc G3/G4 8k E1

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 8k E1
Registration number	041-K004-22
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.23 kg
Certification Date	08.12.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12
Testing laboratory	SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch, CN

## Model GRS-CQ8.0Pd/NhG3-E1+SXTVD300LC/B-E

Model name	GRS-CQ8.0Pd/NhG3-E1+SXTVD300LC/B-E
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	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 $\eta_{DHW}$	117 %
COP	2.77
Heating up time	2:54 h:min
Standby power input	64.5 W
Reference hot water temperature	51.4 °C
Mixed water at 40°C	354 l

## EN 16147 | Colder Climate

Declared load profile	XL
Efficiency $\eta_{DHW}$	94 %
COP	2.24
Heating up time	3:42 h:min
Standby power input	78.5 W
Reference hot water temperature	50.7 °C
Mixed water at 40°C	312 l

## EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency $\eta_{DHW}$	130 %
COP	3.10
Heating up time	2:25 h:min
Standby power input	58.9 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	345 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	8.00 kW	7.80 kW
El input	1.63 kW	2.56 kW
COP	4.90	3.05

#### EN 12102-1 | Average Climate

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

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	145 %
Prated	7.00 kW	7.00 kW
SCOP	4.68	3.70
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.99 kW	6.33 kW
COP Tj = -7°C	3.15	2.27
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.96 kW	3.92 kW
COP Tj = +2°C	4.31	3.45
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	2.22 kW	2.46 kW
COP Tj = +7°C	6.61	5.30
Cdh Tj = +7 °C	0.930	0.950
Pdh Tj = 12°C	1.96 kW	1.82 kW
COP Tj = 12°C	7.84	6.70
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.99 kW	6.33 kW
COP Tj = Tbiv	3.15	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.49 kW	6.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	1.98
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	25 W	25 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.46 kW
Annual energy consumption Q <sub>he</sub>	2979 kWh	3996 kWh

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	160 %	116 %
Prated	7.00 kW	7.00 kW
SCOP	4.08	2.98
T <sub>biv</sub>	-15 °C	-15 °C
TOL	-22 °C	-22 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	3.99 kW	4.34 kW
COP T <sub>j</sub> = -7°C	3.41	2.45
C <sub>dh</sub> T <sub>j</sub> = -7 °C	0.980	0.990
P <sub>dh</sub> T <sub>j</sub> = +2°C	2.63 kW	2.63 kW
COP T <sub>j</sub> = +2°C	4.93	3.61
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.950	0.970
P <sub>dh</sub> T <sub>j</sub> = +7°C	1.75 kW	1.63 kW
COP T <sub>j</sub> = +7°C	5.90	4.09
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.920	0.940
P <sub>dh</sub> T <sub>j</sub> = 12°C	1.95 kW	2.03 kW
COP T <sub>j</sub> = 12°C	7.24	5.83
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.910	0.930
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	5.34 kW	5.57 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.75	2.00
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	4.53 kW	5.20 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.09	1.22
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>		
WTOL	65 °C	65 °C
P <sub>off</sub>	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.47 kW	1.80 kW
Annual energy consumption Q <sub>he</sub>	3937 kWh	5624 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL	5.34	5.57
COP T <sub>j</sub> = -15°C (if TOL	2.75	2.00
C <sub>dh</sub> T <sub>j</sub> = -15 °C		

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
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$\eta_s$	249 %	156 %
Prated	7.00 kW	8.00 kW
SCOP	6.30	3.98
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.70 kW	7.60 kW
COP Tj = +2°C	3.34	2.42
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.95 kW	4.85 kW
COP Tj = +7°C	5.82	3.50
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	2.26 kW	2.10 kW
COP Tj = 12°C	8.03	4.92
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Pdh Tj = Tbiv	6.70 kW	7.60 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.70 kW	7.60 kW
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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	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1420 kWh	2553 kWh

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COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.09	1.22
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>		
WTOL	65 °C	65 °C
P <sub>off</sub>	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
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Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.95 kW	4.85 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.42
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	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1420 kWh	2553 kWh