

Subtype Versati Split G2 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 Split G2 8/10kW
Registration number	041-K004-16
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	24.10.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd, Science City Branch

Model GRS-CQ8.0Pd/NhH2-E+SXTVD300LC/B-E

Model name	GRS-CQ8.0Pd/NhH2-E+SXTVD300LC/B-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	XL
Efficiency η_{DHW}	111 %
COP	2.51
Heating up time	1:32 h:min
Standby power input	132.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	371 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	82 %
COP	1.55
Heating up time	1:51 h:min
Standby power input	183.7 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	376 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.24
Heating up time	1:27 h:min
Standby power input	86.1 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	375 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	7.20 kW
El input	1.61 kW	3.05 kW
COP	4.97	2.36

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	64 dB(A)	67 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	129 %
Prated	7.00 kW	7.00 kW
SCOP	4.60	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.20 kW	6.30 kW
COP Tj = -7°C	2.94	2.24
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.90 kW	4.10 kW
COP Tj = +2°C	4.39	3.18
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	3.00 kW	4.30 kW
COP Tj = +7°C	6.29	4.26
Cdh Tj = +7 °C	0.950	0.970
Pdh Tj = 12°C	3.60 kW	5.00 kW
COP Tj = 12°C	8.43	5.93
Cdh Tj = +12 °C	0.940	0.970
Pdh Tj = Tbiv	6.20 kW	6.30 kW
COP Tj = Tbiv	2.94	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	6.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °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	1.10 kW	0.70 kW
Annual energy consumption Q _{he}	3149 kWh	4371 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	146 %	112 %
Prated	7.00 kW	7.00 kW
SCOP	3.73	2.88
T _{biv}	-15 °C	-15 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7°C	4.50 kW	4.60 kW
COP T _j = -7°C	3.26	2.64
C _{dh} T _j = -7 °C	0.980	0.990
P _{dh} T _j = +2°C	3.30 kW	3.30 kW
COP T _j = +2°C	4.26	3.24
C _{dh} T _j = +2 °C	0.970	0.980
P _{dh} T _j = +7°C	4.30 kW	4.20 kW
COP T _j = +7°C	6.04	4.76
C _{dh} T _j = +7 °C	0.960	0.970
P _{dh} T _j = 12°C	4.90 kW	4.70 kW
COP T _j = 12°C	7.26	5.86
C _{dh} T _j = +12 °C	0.960	0.970
P _{dh} T _j = T _{biv}	5.80 kW	5.90 kW
COP T _j = T _{biv}	2.63	1.77
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.50 kW	2.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	1.52	1.26
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}		
WTOL	60 °C	60 °C
P _{off}	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	2.50 kW	4.10 kW
Annual energy consumption Q _{he}	4628 kWh	5982 kWh
P _{dh} T _j = -15°C (if TOL	5.80	5.90
COP T _j = -15°C (if TOL	2.63	1.77
C _{dh} T _j = -15 °C		

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
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η_s	217 %	159 %
Prated	8.00 kW	8.00 kW
SCOP	5.50	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.20 kW	8.10 kW
COP Tj = +2°C	3.58	2.52
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.40 kW	5.30 kW
COP Tj = +7°C	4.84	3.38
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.10 kW	5.20 kW
COP Tj = 12°C	7.08	5.42
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	8.20 kW	8.10 kW
COP Tj = Tbiv	3.58	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.20 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.58	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °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	1947 kWh	2645 kWh

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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
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Heating up time	1:32 h:min
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EN 16147 | Colder Climate

Declared load profile	XL
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COP	1.55
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EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.24
Heating up time	1:27 h:min
Standby power input	86.1 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	375 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	8.55 kW
El input	2.10 kW	3.72 kW
COP	4.76	2.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	64 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	127 %
Prated	9.00 kW	8.00 kW
SCOP	4.60	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.70 kW	6.90 kW
COP Tj = -7°C	2.87	2.12
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.80 kW	4.20 kW
COP Tj = +2°C	4.34	3.09
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	3.10 kW	4.30 kW
COP Tj = +7°C	6.58	4.34
Cdh Tj = +7 °C	0.950	0.970
Pdh Tj = 12°C	3.70 kW	4.90 kW
COP Tj = 12°C	8.37	5.91
Cdh Tj = +12 °C	0.940	0.970
Pdh Tj = Tbiv	7.70 kW	6.90 kW
COP Tj = Tbiv	2.87	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.75
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °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	1.90 kW	1.20 kW
Annual energy consumption Q _{he}	4038 kWh	5091 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	149 %	110 %
Prated	8.00 kW	8.00 kW
SCOP	3.80	2.83
T _{biv}	-15 °C	-15 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7°C	5.20 kW	5.30 kW
COP T _j = -7°C	3.25	2.42
C _{dh} T _j = -7 °C	0.980	0.990
P _{dh} T _j = +2°C	3.20 kW	3.10 kW
COP T _j = +2°C	4.31	3.23
C _{dh} T _j = +2 °C	0.970	0.970
P _{dh} T _j = +7°C	4.30 kW	4.20 kW
COP T _j = +7°C	6.11	4.78
C _{dh} T _j = +7 °C	0.960	0.970
P _{dh} T _j = 12°C	4.90 kW	4.80 kW
COP T _j = 12°C	7.30	5.91
C _{dh} T _j = +12 °C	0.960	0.970
P _{dh} T _j = T _{biv}	6.40 kW	6.70 kW
COP T _j = T _{biv}	2.69	1.83
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.60 kW	3.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	1.67	1.22
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}		
WTOL	60 °C	60 °C
P _{off}	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	2.40 kW	4.70 kW
Annual energy consumption Q _{he}	5201 kWh	6985 kWh
P _{dh} T _j = -15°C (if TOL	6.40	6.70
COP T _j = -15°C (if TOL	2.69	1.83
C _{dh} T _j = -15 °C		

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
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η_s	217 %	161 %
Prated	9.00 kW	9.00 kW
SCOP	5.50	4.10
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.80 kW	9.00 kW
COP Tj = +2°C	3.15	2.48
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.80 kW	5.90 kW
COP Tj = +7°C	4.86	3.56
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.10 kW	5.20 kW
COP Tj = 12°C	7.18	5.30
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	8.80 kW	9.00 kW
COP Tj = Tbiv	3.15	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °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	2183 kWh	2927 kWh