

Subtype Versati Split G3 4/6kW

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 G3 4/6kW
Registration number	041-K004-25
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.3 kg
Certification Date	26.07.2024
Testing basis	Heat Pump KEYMARK certification Scheme rules v14
Testing laboratory	Intertek Testing Services Shenzhen LTD. Guangzhou Branch, CN

Model GRS-CQ4.0Pd/NhH3-E+SXTVD300LC/B-E

Model name	GRS-CQ4.0Pd/NhH3-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}	113 %
COP	2.71
Heating up time	3:07 h:min
Standby power input	57 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	346 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	94 %
COP	2.26
Heating up time	3:55 h:min
Standby power input	67 W
Reference hot water temperature	52.2 °C
Mixed water at 40°C	341 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.22
Heating up time	2:46 h:min
Standby power input	55 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	348 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	4.30 kW	4.20 kW
El input	0.79 kW	1.40 kW
COP	5.44	3.00
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	200 %	135 %
Prated	5.00 kW	5.00 kW
SCOP	5.08	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.18 kW	4.13 kW
COP Tj = -7°C	3.05	2.30
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	2.74 kW	2.76 kW
COP Tj = +2°C	5.21	3.32
Cdh Tj = +2 °C	0.950	0.970
Pdh Tj = +7°C	1.74 kW	1.60 kW
COP Tj = +7°C	6.23	4.45
Cdh Tj = +7 °C	0.910	0.930
Pdh Tj = 12°C	2.04 kW	1.83 kW
COP Tj = 12°C	8.74	6.18
Cdh Tj = +12 °C	0.900	0.920
Pdh Tj = Tbiv	4.18 kW	4.13 kW
COP Tj = Tbiv	3.05	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.71 kW	4.62 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	1.56
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	0.29 kW	0.38 kW
Annual energy consumption Qhe	1922 kWh	2792 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	153 %	108 %
Prated	4.00 kW	4.00 kW
SCOP	3.90	2.78
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	2.72 kW	2.29 kW
COP Tj = -7°C	3.39	2.40
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	1.73 kW	1.41 kW
COP Tj = +2°C	4.76	3.12
Cdh Tj = +2 °C	0.930	0.950
Pdh Tj = +7°C	1.42 kW	1.18 kW
COP Tj = +7°C	5.79	4.55
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.98 kW	1.87 kW
COP Tj = 12°C	9.01	6.71
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	3.45 kW	3.08 kW
COP Tj = Tbiv	2.26	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.11 kW	3.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.99	1.47
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	0.89 kW	0.93 kW
Annual energy consumption Qhe	2664 kWh	3333 kWh
Pdh Tj = -15°C (if TOL)	3.45	3.08
COP Tj = -15°C (if TOL)	2.26	1.82
Cdh Tj = -15 °C		

EN 14825 | Warmer Climate

Low temperature	Medium temperature
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ηs	248 %	161 %
Prated	5.00 kW	5.00 kW
SCOP	6.28	4.10
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.03 kW	5.01 kW
COP Tj = +2°C	3.73	2.62
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	3.18 kW	3.28 kW
COP Tj = +7°C	5.61	3.79
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	1.96 kW	1.81 kW
COP Tj = 12°C	8.10	4.89
Cdh Tj = +12 °C	0.900	0.930
Pdh Tj = Tbiv	5.03 kW	5.01 kW
COP Tj = Tbiv	3.73	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.01 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.73	2.62
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	1067 kWh	1631 kWh

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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}	113 %
COP	2.71
Heating up time	3:07 h:min
Standby power input	57 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	346 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	94 %
COP	2.26
Heating up time	3:55 h:min
Standby power input	67 W
Reference hot water temperature	52.2 °C
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EN 16147 | Warmer Climate

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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	6.20 kW	6.00 kW
El input	1.18 kW	2.00 kW
COP	5.25	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	196 %	134 %
Prated	6.00 kW	6.00 kW
SCOP	4.98	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.01 kW	5.03 kW
COP Tj = -7°C	3.12	2.28
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	3.14 kW	3.58 kW
COP Tj = +2°C	4.93	3.27
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.12 kW	1.87 kW
COP Tj = +7°C	6.39	4.47
Cdh Tj = +7 °C	0.930	0.940
Pdh Tj = 12°C	2.04 kW	1.83 kW
COP Tj = 12°C	8.74	6.18
Cdh Tj = +12 °C	0.900	0.920
Pdh Tj = Tbiv	5.01 kW	5.03 kW
COP Tj = Tbiv	3.12	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.11 kW	5.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.07
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	0.89 kW	0.85 kW
Annual energy consumption Qhe	2346 kWh	3415 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	153 %	108 %
Prated	4.00 kW	4.00 kW
SCOP	3.90	2.78
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	2.72 kW	2.29 kW
COP Tj = -7°C	3.39	2.40
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	1.73 kW	1.41 kW
COP Tj = +2°C	4.76	3.12
Cdh Tj = +2 °C	0.930	0.950
Pdh Tj = +7°C	1.42 kW	1.18 kW
COP Tj = +7°C	5.79	4.55
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.98 kW	1.87 kW
COP Tj = 12°C	9.02	6.71
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	3.45 kW	3.08 kW
COP Tj = Tbiv	2.26	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.11 kW	3.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.99	1.47
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	0.89 kW	0.93 kW
Annual energy consumption Qhe	2661 kWh	3333 kWh
Pdh Tj = -15°C (if TOL)	3.45	3.08
COP Tj = -15°C (if TOL)	2.26	1.82
Cdh Tj = -15 °C		

EN 14825 | Warmer Climate

Low temperature	Medium temperature
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ηs	250 %	161 %
Prated	6.00 kW	6.00 kW
SCOP	6.33	4.10
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.92 kW	5.53 kW
COP Tj = +2°C	3.71	2.56
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	3.49 kW	3.88 kW
COP Tj = +7°C	5.55	3.77
Cdh Tj = +7 °C	0.960	0.980
Pdh Tj = 12°C	1.96 kW	1.81 kW
COP Tj = 12°C	8.07	4.90
Cdh Tj = +12 °C	0.900	0.930
Pdh Tj = Tbiv	5.92 kW	5.53 kW
COP Tj = Tbiv	3.72	2.57
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.92 kW	5.53 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.72	2.57
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	1250 kWh	1793 kWh