

Subtype DC Inverter Heat Pump- R290- 050T

Certificate Holder	Foshan Guangteng New Energy Co., Ltd.
Address	Building 2, Jilong Zhizao Industrial Park, No.52, Xilian Road Longyan Village, Leliu Street Shunde District, Foshan City
ZIP	
City	Guangdong
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Heat Pump- R290- 050T
Registration number	041-K071-05
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.6 kg
Certification Date	26.10.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model GT-SKR050KBDC-M290T

Model name	GT-SKR050KBDC-M290T
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
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 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	17.70 kW	12.67 kW
El input	3.75 kW	4.94 kW
COP	4.72	2.56

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	71 dB(A)	72 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	142 %
Prated	15.20 kW	13.31 kW
SCOP	4.50	3.62
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	13.45 kW	11.77 kW
COP Tj = -7°C	2.97	2.17
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.19 kW	7.18 kW
COP Tj = +2°C	4.61	3.66
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.08 kW	8.26 kW

COP Tj = +7°C	5.73	5.09
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.52 kW	9.23 kW
COP Tj = 12°C	7.87	6.42
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.77 kW
COP Tj = Tbiv	2.97	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.99 kW	12.45 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	29 W	29 W
PSB	10 W	10 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.21 kW	0.86 kW
Annual energy consumption Qhe	6973 kWh	7603 kWh

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