

## Subtype DC Inverter Air Source Heat Pump- R290- 50B

Certificate Holder	Guangzhou Sprsun New Energy Technology Dev. Co., Ltd,
Address	No.15 Tangxi Road, Yinsha Industrial Park
ZIP	511338
City	Guangzhou
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air Source Heat Pump- R290- 50B
Registration number	041-K036-18
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.2 kg
Certification Date	19.11.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14

## Model CGK-050V4P-B

Model name	CGK-050V4P-B
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	10.28 kW	11.46 kW
El input	2.10 kW	3.81 kW
COP	4.91	3.01

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	59 dB(A)	60 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	189 %	145 %
Prated	12.48 kW	11.75 kW
SCOP	4.81	3.71
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.04 kW	10.39 kW
COP Tj = -7°C	3.15	2.45
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.77 kW	6.41 kW
COP Tj = +2°C	4.84	3.71
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.93 kW	5.58 kW

COP Tj = +7°C	6.30	4.80
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.74 kW	6.48 kW
COP Tj = 12°C	7.97	6.39
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.04 kW	10.39 kW
COP Tj = Tbiv	3.15	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.78 kW	10.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.21
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	24 W	24 W
PTO	85 W	85 W
PSB	24 W	24 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.70 kW	1.67 kW
Annual energy consumption Qhe	5366 kWh	6547 kWh