Subtype DC Inverter Air Source Heat Pump- R290- 30

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- 30
Registration number	041-K036-12
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.8 kg
Certification Date	19.11.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14

Model CGK-030V4P	
Model name	CGK-030V4P
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	7.49 kW	6.82 kW
El input	1.67 kW	2.24 kW
COP	4.50	3.05

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	188 %	141 %
Prated	6.64 kW	6.35 kW
SCOP	4.77	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.87 kW	5.62 kW
COP Tj = -7°C	2.90	2.30
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.81 kW	3.52 kW
COP Tj = +2°C	5.00	3.75
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.39 kW	4.15 kW

COP Tj = +7°C	6.51	4.79
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.02 kW	4.80 kW
COP Tj = 12°C	8.70	6.35
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.87 kW	5.62 kW
COP Tj = Tbiv	2.90	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.46 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	2.05
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	35 W	35 W
PSB	24 W	24 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.18 kW	1.35 kW
Annual energy consumption Qhe	2874 kWh	3642 kWh