Subtype EVI DC Inverter Air Source Heat Pumps 040

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	EVI DC Inverter Air Source Heat Pumps 040
Registration number	041-K036-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2 kg
Certification Date	08.11.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model CGK-040V3L	
Model name	CGK-040V3L
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	12.39 kW	12.59 kW
El input	2.65 kW	4.16 kW
COP	4.68	3.02

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	67 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	177 %	130 %
Prated	10.51 kW	10.35 kW
SCOP	4.51	3.31
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.29 kW	9.15 kW
COP Tj = -7°C	2.93	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.93 kW	5.59 kW
COP Tj = +2°C	4.58	3.36
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.86 kW	6.59 kW

COP Tj = +7°C	6.11	4.56
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.73 kW	7.56 kW
COP Tj = 12°C	7.91	6.20
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.29 kW	9.15 kW
COP Tj = Tbiv	2.93	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.19 kW	9.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.32 kW	0.56 kW
Annual energy consumption Qhe	4817 kWh	6455 kWh

Model CGK040V3L-B	
Model name	CGK040V3L-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	1x230V 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	11.92 kW	12.13 kW
El input	2.60 kW	4.06 kW
COP	4.58	2.99

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	191 %	138 %
Prated	10.69 kW	10.33 kW
SCOP	4.84	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.46 kW	9.14 kW
COP Tj = -7°C	3.02	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.00 kW	5.63 kW
COP Tj = +2°C	4.72	3.37
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.93 kW	6.63 kW

COP Tj = +7°C	6.27	4.58
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.81 kW	7.66 kW
COP Tj = 12°C	8.61	6.81
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.46 kW	9.14 kW
COP Tj = Tbiv	3.02	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.67 kW	9.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	0.90 kW
Annual energy consumption Qhe	4562 kWh	6040 kWh