

Subtype DC Inverter Air-Water Heat Pump 016

Certificate Holder	Foshan AIROSD Thermal Technology Co., Ltd.
Address	Dongfeng Road, Tang Lian Industrial Zone No.2 of Five
ZIP	
City	Foshan City
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air-Water Heat Pump 016
Registration number	041-K048-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.6 kg
Certification Date	20.03.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model QBKFXFC-016SRI

Model name	QBKFXFC-016SRI
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	16.09 kW	16.09 kW
El input	3.57 kW	5.48 kW
COP	4.50	2.94

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
η_s	175 %	132 %
Prated	15.68 kW	15.53 kW
SCOP	4.46	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.87 kW	13.74 kW
COP Tj = -7°C	3.18	2.33
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.66 kW	8.43 kW
COP Tj = +2°C	4.56	3.16
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.13 kW	6.85 kW

COP Tj = +7°C	5.28	4.52
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.39 kW	9.58 kW
COP Tj = 12°C	7.38	6.82
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.87 kW	13.74 kW
COP Tj = Tbiv	3.18	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.36 kW	13.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.32 kW	1.69 kW
Annual energy consumption Qhe	7267 kWh	9509 kWh