

Subtype DC Inverter Air to Water Heat Pump Unit-R32-XC 09

Certificate Holder	Zhongshan Amitime Electric Co., Ltd
Address	5th Yandong Rd
ZIP	
City	Zhongshan City - Guangdong
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air to Water Heat Pump Unit-R32-XC 09
Registration number	041-K027-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.15 kg
Certification Date	27.06.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

Model PAVH-09V1FXC

Model name	PAVH-09V1FXC
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	67 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	129 %
Prated	8.49 kW	7.45 kW
SCOP	4.53	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.51 kW	6.59 kW
COP Tj = -7°C	2.99	1.93
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.60 kW	4.13 kW
COP Tj = +2°C	4.44	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.59 kW	4.32 kW
COP Tj = +7°C	6.27	4.64
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.20 kW	5.14 kW
COP Tj = 12°C	8.10	6.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.51 kW	6.59 kW
COP Tj = Tbiv	2.99	1.93

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.90 kW	6.24 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	58 °C	58 °C
Poff	8 W	8 W
PTO	32 W	32 W
PSB	8 W	8 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.59 kW	1.22 kW
Annual energy consumption Qhe	3874 kWh	4675 kWh