Subtype DC Inverter Air to Water Heat Pump Unit-R32-XC 12

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 12
Registration number	041-K027-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.3 kg
Certification Date	27.06.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

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Model PAVH-12V1FXC	
Model name	PAVH-12V1FXC
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	68 dB(A)	68 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	177 %	129 %
Prated	8.68 kW	7.88 kW
SCOP	4.50	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.68 kW	6.97 kW
COP Tj = -7°C	3.01	1.96
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.70 kW	4.32 kW
COP Tj = +2°C	4.30	3.31
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.24 kW	3.99 kW
COP Tj = +7°C	6.29	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.15 kW	4.91 kW
COP Tj = 12°C	8.75	6.49
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.68 kW	6.97 kW
COP Tj = Tbiv	3.01	1.96

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.01 kW	6.14 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	16 W	16 W
PTO	22 W	22 W
PSB	16 W	16 W
PCK	29 W	29 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.67 kW	1.75 kW
Annual energy consumption Qhe	3983 kWh	4946 kWh

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