

Subtype DC Inverter Air to Water Heat Pump Unit- R290- 12- C

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- R290- 12- C
Registration number	041-K027-15
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	22.09.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model Indoor unit: PAVH-06-20V1GX-250L/IX, Outdoor unit: PAVH-12V1GXX

Model name	Indoor unit: PAVH-06-20V1GX-250L/IX, Outdoor unit: PAVH-12V1GXX
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

Outdoor Air/Water

EN 16147 | Operating test

Temperature operating range	2
Safety devices checking test	2
Condensate draining	2

EN 12102-2 | Average Climate

Sound power level indoor	34 dB(A)
Sound power level outdoor	61 dB(A)

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	124 %
COP	2.98
Heating up time	44:29:29 h:min
Standby power input	25.0 W
Reference hot water temperature	44.9 °C
Mixed water at 40°C	226 l

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	8.90 kW	9.02 kW
El input	1.98 kW	3.60 kW

COP	4.50	2.51
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)
Sound power level outdoor	56 dB(A)	61 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	188 %	139 %
Prated	8.97 kW	8.21 kW
SCOP	4.76	3.56
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.93 kW	7.26 kW
COP Tj = -7°C	2.87	2.25
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.06 kW	4.52 kW
COP Tj = +2°C	4.71	3.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.51 kW	4.01 kW
COP Tj = +7°C	6.83	4.92
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.23 kW	4.62 kW
COP Tj = 12°C	8.40	6.39
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.93 kW	7.26 kW
COP Tj = Tbiv	2.87	2.25
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.22 kW	6.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	67 °C	67 °C
Poff	20 W	20 W
PTO	23 W	23 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.75 kW	1.70 kW
Annual energy consumption Qhe	3889 kWh	4766 kWh

Model Indoor unit: ecoSTAR All-in-one, Outdoor unit: ecoSTAR12

Model name	Indoor unit: ecoSTAR All-in-one, Outdoor unit: ecoSTAR12
Application	Heating + DHW + low temp
Units	Indoor, 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

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