

Subtype DC Inverter Air to Water Heat Pump Unit- R290- 06- 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- 06- C
Registration number	041-K027-13
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.6 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-06V1GXX

Model name	Indoor unit: PAVH-06-20V1GX-250L/IX, Outdoor unit: PAVH-06V1GXX
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	37 dB(A)
Sound power level outdoor	57 dB(A)

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	124 %
COP	2.99
Heating up time	43:16:40 h:min
Standby power input	24.0 W
Reference hot water temperature	45.2 °C
Mixed water at 40°C	222 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	4.38 kW	5.58 kW
El input	0.88 kW	1.85 kW

COP	4.99	3.03
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	57 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	189 %	141 %
Prated	4.91 kW	4.55 kW
SCOP	4.81	3.59
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	4.35 kW	4.02 kW
COP Tj = -7°C	2.98	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.01 kW	2.59 kW
COP Tj = +2°C	4.78	3.39
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.30 kW	2.15 kW
COP Tj = +7°C	6.60	5.17
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.74 kW	2.59 kW
COP Tj = 12°C	9.70	7.45
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.35 kW	4.02 kW
COP Tj = Tbiv	2.98	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.01 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.95	2.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °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	0.90 kW	1.01 kW
Annual energy consumption Qhe	2111 kWh	2616 kWh

Model Indoor unit: ecoSTAR All-in-one, Outdoor unit: ecoSTAR06

Model name	Indoor unit: ecoSTAR All-in-one, Outdoor unit: ecoSTAR06
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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