

## Subtype Intelligent Inverter Heat Pump 20-R290

Certificate Holder	Guangdong PHNIX Eco-Energy Solutions Ltd.
Address	No. 3 Tianyuan Road Dagang Town
ZIP	511470
City	Guangdong
Country	CN
Certification Body	BRE Global Limited
Subtype title	Intelligent Inverter Heat Pump 20-R290
Registration number	041-K020-04
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.5 kg
Certification Date	22.06.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

## Model PASRW020-BP-PS-D

Model name	PASRW020-BP-PS-D
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	57 dB(A)	60 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	197 %	146 %
Prated	4.92 kW	4.71 kW
SCOP	5.00	3.71
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.35 kW	4.17 kW
COP Tj = -7°C	3.23	2.32
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.66 kW	2.67 kW
COP Tj = +2°C	4.92	3.66
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.06 kW	2.57 kW
COP Tj = +7°C	6.18	4.64
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.35 kW	2.83 kW
COP Tj = 12°C	8.29	6.32
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	4.35 kW	4.17 kW
COP Tj = Tbiv	3.23	2.32

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.95 kW	4.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	67 °C	67 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.01 kW
Annual energy consumption Qhe	2031 kWh	2623 kWh