This information was generated by the HP KEYMARK database on 23 Jun 2022

Login

Summary of	Intelligent Inverter Heat Pump 40-R290	Reg. No.	041-K020-05
Certificate Holder			
Name	Guangdong PHNIX Eco-Energy Solutions Ltd.		
Address	No. 3 Tianyuan Road Dagang Town	Zip	511470
City	Guangdong	Country	China
Certification Body	BRE Global Limited		
Subtype title	Intelligent Inverter Heat Pump 40-R290		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass of Refrigerant	0.85 kg		
Certification Date	16.06.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

Model: PASRW040S-BP-PS-D

Configure model	
Model name	PASRW040S-BP-PS-D
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.93 kW	9.17 kW
El input	2.49 kW	3.08 kW
COP	3.99	2.98

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	203 %	155 %
Prated	9.32 kW	9.27 kW
SCOP	5.14	3.95
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.24 kW	8.20 kW
COP Tj = -7°C	3.21	2.61
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.06 kW	5.00 kW
COP Tj = +2°C	4.99	3.69
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.81 kW	5.65 kW
COP Tj = +7°C	6.74	5.21
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.60 kW	6.44 kW

COP Tj = 12°C	8.74	7.36
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.24 kW	8.20 kW
COP Tj = Tbiv	3.21	2.61
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.40 kW	8.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	64 W	64 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.29 kW
Annual energy consumption Qhe	3748 kWh	4844 kWh

Model: PASRW040-BP-PS-D

Configure model	
Model name	PASRW040-BP-PS-D
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	10.93 kW	10.36 kW
El input	2.08 kW	3.38 kW
COP	5.25	3.07

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	56 dB(A)	57 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	202 %	156 %
Prated	9.46 kW	9.03 kW
SCOP	5.11	3.96
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.37 kW	7.99 kW
COP Tj = -7°C	3.24	2.41
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.26 kW	4.88 kW
COP Tj = +2°C	4.95	3.77
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.85 kW	5.81 kW
COP Tj = +7°C	6.66	5.43
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.62 kW	6.47 kW

COP Tj = 12°C	8.68	7.33
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.37 kW	7.99 kW
COP Tj = Tbiv	3.24	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.18 kW	9.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3823 kWh	4710 kWh