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Login

Summary of	Intelligent Inverter Heat Pump 40	Reg. No.	041-K020-02
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		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.8 kg		
Certification Date	01.11.2021		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

Model: PASRW040S-BP-PS-B

Configure model	
Model name	PASRW040S-BP-PS-B
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	9.85 kW	9.03 kW
El input	2.02 kW	3.07 kW
COP	4.88	2.94

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	60 dB(A)	62 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	188 %	135 %
Prated	8.77 kW	9.50 kW
SCOP	4.76	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.76 kW	8.41 kW
COP Tj = -7°C	3.41	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.80 kW	5.14 kW
COP Tj = +2°C	4.43	3.21
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.28 kW	4.24 kW
COP Tj = +7°C	6.22	4.50
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.38 kW	4.54 kW

COP Tj = 12°C	8.18	6.67
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	7.76 kW	8.41 kW
COP Tj = Tbiv	3.41	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.94 kW	7.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	59 W	59 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.84 kW	1.76 kW
Annual energy consumption Qhe	3801 kWh	5702 kWh

Model: PASRW040-BP-PS-B

Configure model	
Model name	PASRW040-BP-PS-B
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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.76 kW	9.50 kW
El input	2.11 kW	3.91 kW
COP	4.63	2.43

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	58 dB(A)	60 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	190 %	134 %
Prated	8.78 kW	9.51 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.77 kW	8.42 kW
COP Tj = -7°C	3.41	2.30
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.79 kW	5.17 kW
COP Tj = +2°C	4.43	3.17
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.28 kW	4.26 kW
COP Tj = +7°C	6.22	4.39
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.94 kW	4.74 kW

COP Tj = 12°C	8.64	6.67
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	7.77 kW	8.42 kW
COP Tj = Tbiv	3.41	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	9.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	44 W	44 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.26 kW
Annual energy consumption Qhe	3769 kWh	5760 kWh