

Subtype Intelligent Inverter Heat Pump R32- P24T, P24T-B

Certificate Holder	Guangdong PHNIX Eco-Energy Solution 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 R32- P24T, P24T-B
Registration number	041-K020-10
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3.4 kg
Certification Date	05.09.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model P24T

Model name	P24T
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	3x400V 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	24.15 kW	23.42 kW
El input	5.56 kW	8.24 kW
COP	4.34	2.84

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	71 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	161 %	121 %
Prated	18.04 kW	18.19 kW
SCOP	4.10	3.11
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.96 kW	16.09 kW
COP Tj = -7°C	2.93	2.07
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	9.86 kW	9.81 kW
COP Tj = +2°C	3.94	3.02
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	9.66 kW	9.61 kW

COP Tj = +7°C	4.93	3.76
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	11.44 kW	11.41 kW
COP Tj = 12°C	6.57	5.13
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	15.96 kW	16.09 kW
COP Tj = Tbiv	2.93	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.13 kW	18.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	59 W	59 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.01 kW
Annual energy consumption Qhe	9081 kWh	12100 kWh

Model P24T-B

Model name	P24T-B
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	3x400V 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 14511-2 | Heating

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