

Subtype DC Inverter Heat Pump R290-40

Certificate Holder	Power World Machinery Equipment Co. Ltd
Address	No.24, The Fourth Industrial Zone, HouTing Street
ZIP	
City	Shenzhen
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Heat Pump R290-40
Registration number	041-K032-08
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.95 kg
Certification Date	30.06.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model PW040-DKZLRS-E/S

Model name	PW040-DKZLRS-E/S
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)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	137 %
Prated	7.89 kW	8.70 kW
SCOP	4.60	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	7.70 kW
COP Tj = -7°C	3.14	2.38
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.26 kW	4.70 kW
COP Tj = +2°C	4.53	3.38
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.52 kW	4.41 kW
COP Tj = +7°C	6.05	4.70
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.25 kW	5.08 kW
COP Tj = 12°C	8.44	6.52
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.98 kW	7.70 kW
COP Tj = Tbiv	3.14	2.38

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.89 kW	7.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	59 °C	59 °C
Poff	5 W	5 W
PTO	23 W	23 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.23 kW
Annual energy consumption Qhe	3546 kWh	5139 kWh