

Subtype Inverter Air to Water Heat Pump- R290- 10

Certificate Holder	Kyung Dong Navien Co., Ltd.
Address	95, Suworam-gil, Seotan-myeon, Pyeongtack-si
ZIP	11704
City	Gyeonggi-do
Country	KR
Certification Body	BRE Global Limited
Subtype title	Inverter Air to Water Heat Pump- R290- 10
Registration number	041-K108-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.98 kg
Certification Date	05.12.2024
Testing basis	Heat Pump Keymark Scheme Rules Rev 14

**Model PEM750V010PGKC**

Model name	PEM750V010PGKC
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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	9.98 kW	9.25 kW
El input	2.13 kW	3.00 kW
COP	4.67	3.09

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	59 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	191 %	143 %
Prated	9.84 kW	9.80 kW
SCOP	4.85	3.65
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.70 kW	8.67 kW
COP Tj = -7°C	3.17	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.31 kW	5.28 kW
COP Tj = +2°C	4.82	3.61
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.68 kW	3.66 kW

COP Tj = +7°C	5.98	4.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.18 kW	3.91 kW
COP Tj = 12°C	8.38	5.89
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.70 kW	8.67 kW
COP Tj = Tbiv	3.17	2.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.75 kW	9.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.11
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	11 W	11 W
PTO	12 W	12 W
PSB	11 W	11 W
PCK	44 W	44 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.09 kW	0.49 kW
Annual energy consumption Qhe	4187 kWh	5554 kWh