

## Subtype Inverter Air to Water Heat Pump- R290- 08

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- 08
Registration number	041-K108-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.8 kg
Certification Date	05.12.2024
Testing basis	Heat Pump Keymark Scheme Rules Rev 14

## Model PEM750V008PGKC

Model name	PEM750V008PGKC
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	8.13 kW	7.47 kW
EI input	1.71 kW	2.48 kW
COP	4.74	3.01

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	190 %	138 %
Prated	7.58 kW	7.62 kW
SCOP	4.82	3.53
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	6.71 kW	6.74 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.16 kW	4.12 kW
COP Tj = +2°C	4.70	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.75 kW	2.76 kW

COP Tj = +7°C	6.31	4.73
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.20 kW	2.77 kW
COP Tj = 12°C	8.20	6.06
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.71 kW	6.74 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.01 kW	6.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	0.57 kW	0.78 kW
Annual energy consumption Qhe	3252 kWh	4462 kWh