

Subtype Air to water heat pump- R290- 90- PA

Certificate Holder	Guangdong New Energy Technology Co., Ltd.
Address	NO.125, Chuangyou Road
ZIP	511340
City	Guangdong
Country	CN
Certification Body	BRE Global Limited
Subtype title	Air to water heat pump- R290- 90- PA
Registration number	041-K054-14
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	29.11.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14

Model NE-F90HCR5INVMV2-PA

Model name	NE-F90HCR5INVMV2-PA
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	5.87 kW	5.95 kW
El input	1.21 kW	1.87 kW
COP	4.86	3.18

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	146 %
Prated	7.07 kW	7.10 kW
SCOP	5.05	3.73
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.26 kW	6.28 kW
COP Tj = -7°C	3.34	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.83 kW	3.83 kW
COP Tj = +2°C	4.93	3.72
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.81 kW	2.56 kW

COP Tj = +7°C	6.67	4.67
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.27 kW	3.02 kW
COP Tj = 12°C	8.51	6.31
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.26 kW	6.28 kW
COP Tj = Tbiv	3.34	2.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.90 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	16 W	16 W
PSB	10 W	10 W
PCK	44 W	44 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.08 kW
Annual energy consumption Qhe	2893 kWh	3934 kWh