

## Subtype Air to Water Heat Pump 90

Certificate Holder	Guangdong New Energy Technology Development 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 90
Registration number	041-K054-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.25 kg
Certification Date	16.05.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11

## Model NE-F90HCR4INVM

Model name	NE-F90HCR4INVM
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	64 dB(A)	65 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	128 %
Prated	6.99 kW	7.25 kW
SCOP	4.51	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.19 kW	6.41 kW
COP Tj = -7°C	3.10	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.81 kW	3.90 kW
COP Tj = +2°C	4.77	3.39
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.90 kW	3.37 kW
COP Tj = +7°C	5.50	4.25
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.08 kW	4.09 kW
COP Tj = 12°C	7.02	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.19 kW	6.41 kW
COP Tj = Tbiv	3.10	1.99

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.42 kW	3.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	6 W	6 W
PTO	13 W	13 W
PSB	6 W	6 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.58 kW	3.47 kW
Annual energy consumption Qhe	3203 kWh	4563 kWh