

Subtype Air to Water Heat Pump- R32- 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- R32- 90
Registration number	041-K054-08
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	13.09.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12

Model NE-F90HCR4INEM

Model name	NE-F90HCR4INEM
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	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	133 %
Prated	8.39 kW	8.83 kW
SCOP	4.61	3.40
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.43 kW	7.81 kW
COP Tj = -7°C	3.39	2.33
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.57 kW	4.81 kW
COP Tj = +2°C	4.51	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.81 kW	4.96 kW
COP Tj = +7°C	5.83	4.56
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.05 kW	5.44 kW
COP Tj = 12°C	8.06	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.43 kW	7.81 kW
COP Tj = Tbiv	3.39	2.33

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.38 kW	8.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.13
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	15 W	15 W
PSB	11 W	11 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.01 kW	0.09 kW
Annual energy consumption Qhe	3762 kWh	5370 kWh

Model NE-F90HCR4TINEM

Model name	NE-F90HCR4TINEM
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	3x400V 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	65 dB(A)	66 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	134 %
Prated	8.43 kW	8.47 kW
SCOP	4.60	3.42
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.46 kW	7.50 kW
COP Tj = -7°C	3.32	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.66 kW	4.70 kW
COP Tj = +2°C	4.53	3.41
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.73 kW	4.75 kW
COP Tj = +7°C	5.70	4.52
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.91 kW	5.15 kW
COP Tj = 12°C	8.33	6.38
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.46 kW	7.50 kW
COP Tj = Tbiv	3.32	2.20

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	8.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.06	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	15 W	15 W
PSB	12 W	12 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.07 kW	0.16 kW
Annual energy consumption Qhe	3786 kWh	5124 kWh