Subtype Air to Water Heat Pump- R32- 90	
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- R32- 90
Registration number	041-K054-08
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	28.11.2024
Testing basis	Heat Pump KEYMARK certification Scheme rules v12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8.98 kW	9.81 kW
El input	1.92 kW	3.37 kW
COP	4.67	2.91
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
ηs	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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8.98 kW	9.98 kW
El input	1.93 kW	3.40 kW
COP	4.66	2.94
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
ηs	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