

## Subtype Air to Water Heat Pump- R32- 230/260

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- 230/260
Registration number	041-K054-12
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3.2 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-F230HCR4TINEM

Model name	NE-F230HCR4TINEM
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	21.32 kW	18.30 kW
El input	4.94 kW	6.37 kW
COP	4.32	2.87

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	71 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	131 %
Prated	16.55 kW	16.19 kW
SCOP	4.50	3.36
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	14.64 kW	14.33 kW
COP Tj = -7°C	2.90	2.11
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.07 kW	8.78 kW
COP Tj = +2°C	4.42	3.31
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	9.45 kW	8.92 kW

COP Tj = +7°C	6.22	4.53
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.60 kW	10.73 kW
COP Tj = 12°C	7.77	6.71
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.64 kW	14.32 kW
COP Tj = Tbiv	2.90	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.54 kW	15.97 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.67	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	27 W	27 W
PSB	12 W	12 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.01 kW	0.22 kW
Annual energy consumption Qhe	7600 kWh	9967 kWh

## Model NE-F260HCR4TINEM

Model name	NE-F260HCR4TINEM
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	25.09 kW	26.31 kW
El input	6.03 kW	9.81 kW
COP	4.16	2.68

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	72 dB(A)	71 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	131 %
Prated	16.64 kW	16.18 kW
SCOP	4.51	3.35
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	14.72 kW	14.31 kW
COP Tj = -7°C	2.91	2.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.00 kW	8.78 kW
COP Tj = +2°C	4.46	3.31
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	9.20 kW	8.58 kW

COP Tj = +7°C	5.97	4.53
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	10.88 kW	10.38 kW
COP Tj = 12°C	8.78	6.61
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.72 kW	14.31 kW
COP Tj = Tbiv	2.91	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.52 kW	16.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	23 W	23 W
PSB	11 W	11 W
PCK	44 W	44 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.12 kW	0.10 kW
Annual energy consumption Qhe	7623 kWh	9969 kWh