

## Subtype Air to water heat pump- R290- 160T- 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- 160T- PA
Registration number	041-K054-17
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.28 kg
Certification Date	29.11.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14

## Model NE-F160HCR5TINVMV2-PA

Model name	NE-F160HCR5TINVMV2-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	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	10.13 kW	10.12 kW
El input	2.00 kW	3.20 kW
COP	5.06	3.17

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	54 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	200 %	145 %
Prated	12.87 kW	12.55 kW
SCOP	5.07	3.69
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.39 kW	11.10 kW
COP Tj = -7°C	3.13	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.00 kW	6.77 kW
COP Tj = +2°C	5.00	3.71
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	5.07 kW

COP Tj = +7°C	6.78	4.71
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.62 kW	6.10 kW
COP Tj = 12°C	9.21	6.22
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.39 kW	11.10 kW
COP Tj = Tbiv	3.13	2.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.26 kW	10.89 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	15 W	15 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.61 kW	1.66 kW
Annual energy consumption Qhe	5244 kWh	7018 kWh