

Subtype Air Source Heat Pump R32- 08

Certificate Holder	Jiangsu Micoe Solar Energy Co., Ltd
Address	No.199, Yingzhou Road,
ZIP	222000
City	Lianyungang City, Jiangsu Province
Country	CN
Certification Body	BRE Global Limited
Subtype title	Air Source Heat Pump R32- 08
Registration number	041-K061-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.25 kg
Certification Date	08.08.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model MMHP-008C1**

Model name	MMHP-008C1
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	6.36 kW	5.96 kW
El input	1.20 kW	1.97 kW
COP	5.30	3.02

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	180 %	126 %
Prated	5.22 kW	5.03 kW
SCOP	4.58	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.62 kW	4.45 kW
COP Tj = -7°C	3.03	2.14
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.92 kW	2.80 kW
COP Tj = +2°C	4.51	3.22
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.04 kW	1.75 kW

COP Tj = +7°C	6.03	3.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.06 kW	2.19 kW
COP Tj = 12°C	7.58	6.08
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.62 kW	4.45 kW
COP Tj = Tbiv	3.03	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.18 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	8 W	8 W
PTO	16 W	16 W
PSB	8 W	8 W
PCK	63 W	63 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.05 kW	0.94 kW
Annual energy consumption Qhe	2357 kWh	3212 kWh

**Model MMHP-008B1**

Model name	MMHP-008B1
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	6.36 kW	5.96 kW
El input	1.20 kW	1.97 kW
COP	5.30	3.02

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	180 %	126 %
Prated	5.22 kW	5.03 kW
SCOP	4.58	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.62 kW	4.45 kW
COP Tj = -7°C	3.03	2.14
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.92 kW	2.80 kW
COP Tj = +2°C	4.51	3.22
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.04 kW	1.75 kW

COP Tj = +7°C	6.03	3.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.06 kW	2.19 kW
COP Tj = 12°C	7.58	6.08
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.62 kW	4.45 kW
COP Tj = Tbiv	3.03	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.18 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	8 W	8 W
PTO	16 W	16 W
PSB	8 W	8 W
PCK	63 W	63 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.05 kW	0.94 kW
Annual energy consumption Qhe	2357 kWh	3212 kWh