

Subtype DC Inverter Air Source Heat Pump 18 EVI

Certificate Holder	MYCOND Limited
Address	42-44 Bishopsgate
ZIP	EC2N 4AH
City	London
Country	GB
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air Source Heat Pump 18 EVI
Registration number	041-K088-11
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3.5 kg
Certification Date	03.04.2024
Testing basis	Heat Pump Keymark Scheme Rules Rev 13
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model BeeThermic MHCM 18 SU3A

Model name	BeeThermic MHCM 18 SU3A
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	18.62 kW	18.66 kW
EI input	4.05 kW	5.99 kW
COP	4.60	3.12

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	71 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	128 %
Prated	13.75 kW	13.73 kW
SCOP	4.53	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.17 kW	12.15 kW
COP Tj = -7°C	3.41	2.52
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.39 kW	7.36 kW
COP Tj = +2°C	4.39	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.46 kW	5.86 kW

COP Tj = +7°C	5.62	3.82
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.28 kW	6.83 kW
COP Tj = 12°C	7.99	5.12
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.17 kW	12.15 kW
COP Tj = Tbiv	3.41	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.39 kW	11.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	11 W	11 W
PTO	37 W	37 W
PSB	11 W	11 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.37 kW	2.70 kW
Annual energy consumption Qhe	6271 kWh	8646 kWh