

Subtype Air Source Heat Pump R290 6

Certificate Holder	Megawave Energy Limited
Address	71-75 Shelton Street, Covent Garden
ZIP	WC2H 9JQ
City	London
Country	GB
Certification Body	BRE Global Limited
Subtype title	Air Source Heat Pump R290 6
Registration number	041-K059-06
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.55 kg
Certification Date	17.05.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model MWMHPC-6KW1

Model name	MWMHPC-6KW1
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	6.07 kW	6.10 kW
El input	1.27 kW	1.95 kW
COP	4.77	3.12

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	146 %
Prated	6.08 kW	6.06 kW
SCOP	4.83	3.71
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.37 kW	5.36 kW
COP Tj = -7°C	3.09	2.33
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.40 kW	3.33 kW
COP Tj = +2°C	4.68	3.66
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.24 kW	2.17 kW

COP Tj = +7°C	6.20	4.70
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.36 kW	2.28 kW
COP Tj = 12°C	9.30	7.01
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.37 kW	5.36 kW
COP Tj = Tbiv	3.09	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.03 kW	5.62 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	2.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	30 W	30 W
PSB	10 W	10 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.05 kW	0.44 kW
Annual energy consumption Qhe	2599 kWh	3372 kWh