

Subtype KENSOL KTM10kW

Certificate Holder	KENSOL Sp z.o.o.
Address	ul. Daszyńskiego 609a
ZIP	44-151
City	Gliwice
Country	PL
Certification Body	BRE Global Limited
Subtype title	KENSOL KTM10kW
Registration number	041-K049-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	21.04.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model KTM10kW**

Model name	KTM10kW
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	7.84 kW	8.22 kW
El input	1.69 kW	3.05 kW
COP	4.65	2.69

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	65 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	175 %	127 %
Prated	7.00 kW	7.19 kW
SCOP	4.46	3.25
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	6.19 kW	6.36 kW
COP Tj = -7°C	2.98	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.98 kW	4.01 kW
COP Tj = +2°C	4.50	3.28
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.19 kW	4.17 kW

COP Tj = +7°C	5.81	4.06
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.65 kW	4.95 kW
COP Tj = 12°C	7.79	5.62
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.19 kW	6.36 kW
COP Tj = Tbiv	2.98	2.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	5.57 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	6 W	6 W
PTO	7 W	7 W
PSB	6 W	6 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.25 kW	1.62 kW
Annual energy consumption Qhe	3244 kWh	4566 kWh