

Subtype KENSOL KTM14kW&17kW

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 KTM14kW&17kW
Registration number	041-K049-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.7 kg
Certification Date	23.05.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model KTM14kW

Model name	KTM14kW
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	20.72 kW	19.68 kW
El input	4.63 kW	7.41 kW
COP	4.55	2.66

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	73 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	137 %
Prated	16.45 kW	17.04 kW
SCOP	4.46	3.51
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.55 kW	15.08 kW
COP Tj = -7°C	3.55	2.33
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.79 kW	9.22 kW
COP Tj = +2°C	4.29	3.49
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.74 kW	6.54 kW

COP Tj = +7°C	5.18	4.15
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	9.93 kW	7.95 kW
COP Tj = 12°C	6.79	5.96
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	14.55 kW	15.08 kW
COP Tj = Tbiv	0.55	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.54 kW	13.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	50 °C	50 °C
Poff	5 W	5 W
PTO	5 W	5 W
PSB	5 W	5 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	3.23 kW
Annual energy consumption Qhe	7622 kWh	10032 kWh

Model KTM17kW

Model name	KTM17kW
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	20.49 kW	21.59 kW
El input	5.85 kW	7.46 kW
COP	3.50	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	72 dB(A)	75 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	132 %
Prated	17.73 kW	18.46 kW
SCOP	4.46	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.69 kW	16.33 kW
COP Tj = -7°C	3.52	2.21
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	9.58 kW	9.86 kW
COP Tj = +2°C	4.29	3.41
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	8.82 kW	6.79 kW

COP Tj = +7°C	5.14	4.01
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	10.45 kW	8.10 kW
COP Tj = 12°C	6.81	5.72
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	15.69 kW	16.33 kW
COP Tj = Tbiv	3.52	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.22 kW	14.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	50 °C	50 °C
Poff	5 W	5 W
PTO	5 W	5 W
PSB	5 W	5 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.51 kW	4.24 kW
Annual energy consumption Qhe	8214 kWh	11269 kWh