

Subtype HPMO2-12

Certificate Holder	Kospel spółka z o.o.
Address	ul. Olchowa 1,
ZIP	75-136
City	Koszalin
Country	PL
Certification Body	BRE Global Limited
Subtype title	HPMO2-12
Registration number	041-K050-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	03.05.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model HPMO2-12**

Model name	HPMO2-12
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	9.96 kW	9.14 kW
El input	2.20 kW	3.34 kW
COP	4.53	2.74

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	179 %	128 %
Prated	8.88 kW	8.67 kW
SCOP	4.55	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.85 kW	7.67 kW
COP Tj = -7°C	3.15	2.22
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.06 kW	5.19 kW
COP Tj = +2°C	4.30	3.15
Cdh Tj = +2 °C	0.900	0.990
Pdh Tj = +7°C	4.30 kW	4.20 kW

COP Tj = +7°C	5.78	4.13
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.60 kW	4.26 kW
COP Tj = 12°C	8.11	5.90
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	7.85 kW	7.67 kW
COP Tj = Tbiv	3.15	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.94 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	52 °C	52 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	62 W	62 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.93 kW	1.61 kW
Annual energy consumption Qhe	4033 kWh	5456 kWh