

## Subtype HPMO2-8

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	HPMO2-8
Registration number	041-K050-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.1 kg
Certification Date	03.05.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11

## Model HPMO2-8

Model name	HPMO2-8
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	60 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	135 %
Prated	5.10 kW	5.38 kW
SCOP	4.55	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.51 kW	4.75 kW
COP Tj = -7°C	3.13	2.19
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.82 kW	2.95 kW
COP Tj = +2°C	4.21	3.39
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.51 kW	2.83 kW
COP Tj = +7°C	5.87	4.25
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.85 kW	2.67 kW
COP Tj = 12°C	9.10	6.45
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	4.51 kW	4.76 kW
COP Tj = Tbiv	3.13	2.19

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.76 kW	4.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	59 °C	59 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.34 kW	0.78 kW
Annual energy consumption Qhe	2318 kWh	3223 kWh