

Subtype Sensei ATW Heat Pump Monoblock 10KW

Certificate Holder	Sensei Polska Sp. z.o.o.
Address	Ul. Smulikowskiego 4A/16
ZIP	00-389
City	Warsaw
Country	PL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Sensei ATW Heat Pump Monoblock 10KW
Registration number	011-1W0748
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	14.12.2023
Testing basis	HP KEYMARK certification scheme rules V12

Model HPGM-10BP

Model name	HPGM-10BP
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	10.00 kW	9.50 kW
El input	2.22 kW	3.54 kW
COP	4.50	2.68

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	196 %	134 %
Prated	9.73 kW	9.09 kW
SCOP	4.98	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.61 kW	8.04 kW
COP Tj = -7°C	2.93	1.97
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.05 kW	4.74 kW
COP Tj = +2°C	4.70	3.25
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.67 kW	3.55 kW

COP Tj = +7°C	7.29	5.01
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.03 kW	3.96 kW
COP Tj = 12°C	10.15	7.00
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.61 kW	8.04 kW
COP Tj = Tbiv	2.93	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.24 kW	7.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.67	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	62 °C	62 °C
Poff	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.49 kW	1.54 kW
Annual energy consumption Qhe	3980 kWh	5378 kWh