

Subtype AquaMaster Inverter AQ30I

Certificate Holder	Master Therm tepelna cernadla s.r.o.
Address	Vaclavske namesti 819/43
ZIP	110 00
City	Praha
Country	CZ
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	AquaMaster Inverter AQ30I
Registration number	037-0128-23
Heat Pump Type	Brine/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	30.08.2023
Testing basis	HP Keymark scheme rules rev. no. 10
Testing laboratory	SZU Brno, CZ

Model AquaMaster Inverter AQ30I

Model name	AquaMaster Inverter AQ30I
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Brine/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.68 kW	7.08 kW
El input	1.73 kW	2.44 kW
COP	4.44	2.90

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	198 %	148 %
Prated	10.90 kW	9.94 kW
SCOP	5.14	3.90
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.64 kW	8.96 kW
COP Tj = -7°C	4.23	2.98
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.87 kW	5.56 kW
COP Tj = +2°C	5.15	3.87
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.95 kW	3.78 kW
COP Tj = +7°C	5.85	4.63
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	1.97 kW	1.90 kW
COP Tj = 12°C	5.85	4.75
Cdh Tj = +12 °C	0.965	0.970
Pdh Tj = Tbiv	10.90 kW	9.94 kW
COP Tj = Tbiv	3.97	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.90 kW	9.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.97	2.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	4378 kWh	5267 kWh