

Subtype AquaMaster Inverter AQ30I-1

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-1
Registration number	037-0204-25
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.7 kg
Certification Date	09.04.2025
Testing basis	HP Keymark certification scheme rules rev. no.14
Testing laboratory	SZU Brno, CZ

Model AquaMaster Inverter AQ30I-1

Model name	AquaMaster Inverter AQ30I-1
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	No

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	7.89 kW	6.97 kW
El input	1.72 kW	2.33 kW
COP	4.59	2.99

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	189 %	145 %
Prated	11.43 kW	10.71 kW
SCOP	4.92	3.82
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.10 kW	9.37 kW
COP Tj = -7°C	4.39	3.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.25 kW	5.82 kW
COP Tj = +2°C	4.87	3.78
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.30 kW	3.87 kW
COP Tj = +7°C	5.41	4.40
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	1.89 kW	1.82 kW
COP Tj = 12°C	5.51	4.53
Cdh Tj = +12 °C	0.900	0.971
Pdh Tj = Tbiv	11.43 kW	10.71 kW
COP Tj = Tbiv	4.30	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.43 kW	10.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.30	2.93
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4796 kWh	5786 kWh