

Subtype AquaMaster Inverter AQ37I-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 AQ37I-1
Registration number	037-0129-23
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.8 kg
Certification Date	30.08.2023
Testing basis	HP Keymark scheme rules rev. no. 10
Testing laboratory	SZU Brno, CZ

Model AquaMaster Inverter AQ37I-1

Model name	AquaMaster Inverter AQ37I-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	3x400V 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	10.52 kW	9.62 kW
El input	2.25 kW	3.10 kW
COP	4.68	3.10

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	196 %	151 %
Prated	15.27 kW	13.89 kW
SCOP	5.10	3.97
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.65 kW	12.35 kW
COP Tj = -7°C	4.54	3.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.63 kW	8.17 kW
COP Tj = +2°C	5.04	3.92
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.42 kW	5.00 kW
COP Tj = +7°C	5.60	4.59
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.62 kW	2.52 kW
COP Tj = 12°C	5.60	4.70
Cdh Tj = +12 °C	0.975	0.978
Pdh Tj = Tbiv	15.27 kW	13.89 kW
COP Tj = Tbiv	4.44	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.27 kW	13.89 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.44	3.00
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	6185 kWh	7232 kWh