

Subtype AquaMaster Inverter AQ22I

Certificate Holder	Master Therm tepelna cerpadla 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 AQ22I
Registration number	037-0062-21
Heat Pump Type	Brine/Water
Refrigerant	R32
Mass of Refrigerant	1 kg
Certification Date	26.01.2021
Testing basis	HP Keymark scheme rules rev. no. 7
Testing laboratory	SZU Brno, CZ

Model AquaMaster Inverter AQ22I

Model name	AquaMaster Inverter AQ22I
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
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.18 kW	3.81 kW
El input	0.90 kW	1.32 kW
COP	4.66	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	208 %	152 %
Prated	7.08 kW	5.91 kW
SCOP	5.39	4.01
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.39 kW	5.27 kW
COP Tj = -7°C	4.12	2.96
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.54 kW	3.37 kW
COP Tj = +2°C	5.51	4.02
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.45 kW	2.12 kW
COP Tj = +7°C	6.28	4.87

Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.16 kW	1.07 kW
COP Tj = 12°C	6.37	5.02
Cdh Tj = +12 °C	0.90	0.94
Pdh Tj = Tbiv	7.08 kW	5.91 kW
COP Tj = Tbiv	4.00	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.08 kW	5.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.67
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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2713 kWh	3051 kWh