

Subtype AquaMaster Inverter AQ22IP

Certificate Holder	Master Therm tepelna cernadla s.r.o.
Address	Vaclavské náměstí 819/43
ZIP	110 00
City	Praha
Country	CZ
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	AquaMaster Inverter AQ22IP
Registration number	037-199-25
Heat Pump Type	Brine/Water
Refrigerant	R290
Mass of Refrigerant	0.22 kg
Certification Date	09.04.2025
Testing basis	HP Keymark certification scheme rules rev. no.14
Testing laboratory	SZU Brno, CZ

Model AquaMaster Inverter AQ22IP

Model name	AquaMaster Inverter AQ22IP
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	n/a

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	5.23 kW	4.89 kW
El input	1.23 kW	1.69 kW
COP	4.25	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	182 %	140 %
Prated	7.18 kW	6.65 kW
SCOP	4.75	3.69
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.44 kW	6.02 kW
COP Tj = -7°C	3.99	2.86
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.98 kW	3.79 kW
COP Tj = +2°C	4.79	3.67
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.68 kW	2.49 kW
COP Tj = +7°C	5.42	4.42
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	1.78 kW	1.73 kW
COP Tj = 12°C	5.42	4.59
Cdh Tj = +12 °C	0.957	0.962
Pdh Tj = Tbiv	7.18 kW	6.65 kW
COP Tj = Tbiv	3.71	2.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	6.65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 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	3128 kWh	3719 kWh

Model AquaMaster Inverter AQ22ICP

Model name	AquaMaster Inverter AQ22ICP
Application	Heating + DHW + low 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	n/a

Brine/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.26
Heating up time	2:32 h:min
Standby power input	48.2 W
Reference hot water temperature	54.4 °C
Mixed water at 40°C	185 l

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	5.23 kW	4.89 kW
EI input	1.23 kW	1.69 kW
COP	4.25	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	182 %	140 %
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Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
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COP Tj = -7°C	3.99	2.86
Cdh Tj = -7 °C	0.900	0.900
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PTO	14 W	14 W
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Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3128 kWh	3719 kWh