Subtype AquaMaster Inverter AQ17IP

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 AQ17IP
Registration number	037-198-25
Heat Pump Type	Brine/Water
Refrigerant	R290
Mass of Refrigerant	0.152 kg
Certification Date	09.04.2025
Testing basis	HP Keymark certification scheme rules rev. no.15
Testing laboratory	SZU Brno, CZ

Model AquaMaster Inverter AQ17IP

Model name	AquaMaster Inverter AQ17IP
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
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	2.57 kW	2.39 kW
El input	0.60 kW	0.87 kW
COP	4.27	2.74

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
ηs	176 %	136 %
Prated	4.94 kW	4.64 kW
SCOP	4.59	3.59
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.36 kW
COP Tj = -7°C	4.12	2.93
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.80 kW	2.66 kW
COP Tj = +2°C	4.74	3.62
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.76 kW	1.72 kW
COP Tj = +7°C	5.03	4.20

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.78 kW	1.73 kW
COP Tj = 12°C	5.11	4.36
Cdh Tj = +12 °C	0.959	0.964
Pdh Tj = Tbiv	4.94 kW	4.64 kW
COP Tj = Tbiv	3.86	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.64 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.86	2.67
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	2223 kWh	2671 kWh

Model AquaMaster Inverter AQ17ICP

Model name	AquaMaster Inverter AQ17ICP
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 ηDHW	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
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	2.57 kW	2.39 kW
El input	0.60 kW	0.87 kW
COP	4.27	2.74

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
ηs	176 %	136 %
Prated	4.94 kW	4.64 kW
SCOP	4.59	3.59

Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.36 kW
COP Tj = -7°C	4.12	2.93
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.80 kW	2.66 kW
COP Tj = +2°C	4.74	3.62
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.76 kW	1.72 kW
COP Tj = +7°C	5.03	4.20
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.78 kW	1.73 kW
COP Tj = 12°C	5.11	4.36
Cdh Tj = +12 °C	0.959	0.964
Pdh Tj = Tbiv	4.94 kW	4.64 kW
COP Tj = Tbiv	3.86	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.64 kW
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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	2223 kWh	2671 kWh