

Subtype AquaMaster Inverter AQ22IP

| | |
|---------------------|---|
| 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 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

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|-------------------------------------|----------------------------|
| 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 |
| 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 |
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| 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 |