| Subtype ETERA M | |
|---|---|
| Certificate Holder | KRONOTERM d.o.o. |
| Address | Trnava 5e |
| ZIP | 3303 |
| City | Gomilsko |
| Country | SI |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | ETERA M |
| Registration number | 011-1W0886 |
| Heat Pump Type | Brine/Water and Water/Water |
| Refrigerant | R452B |
| Mass of Refrigerant | 1.3 kg |
| Certification Date | 26.09.2024 |
| Testing basis | HP KEYMARK certification scheme rules V14 |

| Model ETERA M-1 HT / HK 3F E | |
|---|---|
| Model name | ETERA M-1 HT / HK 3F E |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder, Warmer, Warmer Climate, Colder Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

| General data | |
|---|---|
| Power supply | 3x230V 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 | 6.11 kW | 8.11 kW |
| El input | 1.24 kW | 2.59 kW |
| COP | 4.89 | 3.13 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 220 % | 156 % |
| Prated | 12.20 kW | 12.10 kW |
| SCOP | 5.70 | 4.10 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.81 kW | 10.67 kW |
| COP Tj = -7°C | 4.96 | 3.39 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 7.07 kW | 6.65 kW |
| COP Tj = +2°C | 5.81 | 4.11 |
| Cdh Tj = +2 °C | 0.993 | 0.994 |
| Pdh Tj = +7°C | 4.68 kW | 4.26 kW |
| COP Tj = +7°C | 6.01 | 4.42 |

| | | |
|---|---|---|
| Cdh Tj = +7 °C | 0.989 | 0.991 |
| Pdh Tj = 12°C | 3.97 kW | 3.58 kW |
| COP Tj = 12°C | 5.96 | 4.84 |
| Cdh Tj = +12 °C | 0.987 | 0.988 |
| Pdh Tj = Tbiv | 12.20 kW | 12.07 kW |
| COP Tj = Tbiv | 4.81 | 3.18 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.20 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 3.18 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 4420 kWh | 6095 kWh |

## EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

## EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 225 % | 158 % |
| Prated | 12.20 kW | 12.10 kW |
| SCOP | 5.82 | 4.16 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.52 kW | 7.36 kW |
| COP Tj = -7°C | 5.77 | 3.91 |
| Cdh Tj = -7 °C | 0.993 | 0.995 |
| Pdh Tj = +2°C | 4.88 kW | 4.56 kW |
| COP Tj = +2°C | 6.03 | 4.38 |
| Cdh Tj = +2 °C | 0.989 | 0.992 |
| Pdh Tj = +7°C | 3.97 kW | 3.55 kW |
| COP Tj = +7°C | 5.96 | 4.61 |
| Cdh Tj = +7 °C | 0.987 | 0.989 |
| Pdh Tj = 12°C | 3.46 kW | 3.59 kW |
| COP Tj = 12°C | 5.80 | 5.09 |
| Cdh Tj = +12 °C | 0.986 | 0.988 |
| Pdh Tj = Tbiv | 12.20 kW | 12.07 kW |
| COP Tj = Tbiv | 4.81 | 3.18 |

| | | |
|---|---|---|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.20 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 3.18 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 5167 kWh | 7172 kWh |

## EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

## EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 214 % | 156 % |
| Prated | 12.20 kW | 12.10 kW |
| SCOP | 5.55 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 12.20 kW | 12.07 kW |
| COP Tj = +2°C | 4.81 | 3.18 |
| Cdh Tj = +2 °C | 0.996 | 0.998 |
| Pdh Tj = +7°C | 7.87 kW | 7.94 kW |
| COP Tj = +7°C | 5.55 | 3.89 |
| Cdh Tj = +7 °C | 0.994 | 0.996 |
| Pdh Tj = 12°C | 3.78 kW | 3.69 kW |
| COP Tj = 12°C | 5.72 | 4.44 |
| Cdh Tj = +12 °C | 0.987 | 0.990 |
| Pdh Tj = Tbiv | 12.20 kW | 12.07 kW |
| COP Tj = Tbiv | 4.81 | 3.18 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.20 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 3.18 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |

| | | |
|---|---|---|
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 2935 kWh | 3956 kWh |

Water/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 | 6.06 kW | 8.10 kW |
| El input | 0.90 kW | 2.09 kW |
| COP | 6.72 | 3.88 |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 313 % | 213 % |
| Prated | 12.10 kW | 12.00 kW |
| SCOP | 8.02 | 5.52 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.90 kW | 10.83 kW |
| COP Tj = -7°C | 6.89 | 4.20 |
| Cdh Tj = -7 °C | 0.994 | 0.997 |
| Pdh Tj = +2°C | 6.60 kW | 6.56 kW |
| COP Tj = +2°C | 8.07 | 5.58 |
| Cdh Tj = +2 °C | 0.990 | 0.993 |
| Pdh Tj = +7°C | 4.27 kW | 4.28 kW |
| COP Tj = +7°C | 8.50 | 6.14 |
| Cdh Tj = +7 °C | 0.984 | 0.988 |
| Pdh Tj = 12°C | 4.02 kW | 4.01 kW |
| COP Tj = 12°C | 9.05 | 6.81 |
| Cdh Tj = +12 °C | 0.982 | 0.986 |
| Pdh Tj = Tbiv | 12.15 kW | 12.05 kW |
| COP Tj = Tbiv | 6.63 | 3.96 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.15 kW | 12.05 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.63 | 3.96 |

| | | |
|---|---|---|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 3118 kWh | 4489 kWh |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 324 % | 220 % |
| Prated | 12.20 kW | 12.00 kW |
| SCOP | 8.31 | 5.70 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.46 kW | 7.46 kW |
| COP Tj = -7°C | 8.02 | 5.35 |
| Cdh Tj = -7 °C | 0.991 | 0.994 |
| Pdh Tj = +2°C | 4.57 kW | 4.58 kW |
| COP Tj = +2°C | 8.67 | 6.03 |
| Cdh Tj = +2 °C | 0.984 | 0.989 |
| Pdh Tj = +7°C | 4.02 kW | 4.03 kW |
| COP Tj = +7°C | 9.05 | 6.62 |
| Cdh Tj = +7 °C | 0.982 | 0.986 |
| Pdh Tj = 12°C | 4.03 kW | 4.04 kW |
| COP Tj = 12°C | 8.81 | 7.20 |
| Cdh Tj = +12 °C | 0.982 | 0.985 |
| Pdh Tj = Tbiv | 12.15 kW | 12.05 kW |
| COP Tj = Tbiv | 6.63 | 3.96 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.15 kW | 12.05 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.63 | 3.96 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |

| | | |
|---|---|---|
| Annual energy consumption Qhe | 3621 kWh | 5190 kWh |

| EN 14825 \| Warmer Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 317 % | 213 % |
| Prated | 12.10 kW | 12.00 kW |
| SCOP | 8.13 | 5.52 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 12.15 kW | 12.05 kW |
| COP Tj = +2°C | 6.63 | 3.96 |
| Cdh Tj = +2 °C | 0.995 | 0.997 |
| Pdh Tj = +7°C | 7.97 kW | 7.94 kW |
| COP Tj = +7°C | 7.78 | 5.05 |
| Cdh Tj = +7 °C | 0.992 | 0.994 |
| Pdh Tj = 12°C | 4.04 kW | 4.04 kW |
| COP Tj = 12°C | 8.83 | 6.33 |
| Cdh Tj = +12 °C | 0.982 | 0.987 |
| Pdh Tj = Tbiv | 12.15 kW | 12.05 kW |
| COP Tj = Tbiv | 6.63 | 3.96 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.15 kW | 12.05 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.63 | 3.96 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 1987 kWh | 2902 kWh |

| Model ETERA-C M-1 HT / HK 3F | |
|---|---|
| Model name | ETERA-C M-1 HT / HK 3F |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder, Warmer, Warmer Climate, Colder Climate |
| Reversibility | Yes |
| 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 | 6.05 kW | 8.11 kW |
| El input | 1.24 kW | 2.59 kW |
| COP | 4.89 | 3.13 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 220 % | 156 % |
| Prated | 12.20 kW | 12.10 kW |
| SCOP | 5.70 | 4.10 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.81 kW | 10.67 kW |
| COP Tj = -7°C | 4.96 | 3.39 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 7.07 kW | 6.65 kW |
| COP Tj = +2°C | 5.81 | 4.11 |
| Cdh Tj = +2 °C | 0.993 | 0.994 |
| Pdh Tj = +7°C | 4.68 kW | 4.26 kW |
| COP Tj = +7°C | 6.01 | 4.42 |

| | | |
|---|---|---|
| Cdh Tj = +7 °C | 0.989 | 0.991 |
| Pdh Tj = 12°C | 3.97 kW | 3.58 kW |
| COP Tj = 12°C | 5.96 | 4.84 |
| Cdh Tj = +12 °C | 0.987 | 0.988 |
| Pdh Tj = Tbiv | 12.20 kW | 12.07 kW |
| COP Tj = Tbiv | 4.81 | 3.18 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.20 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 3.18 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 4420 kWh | 6095 kWh |

## EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

## EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 225 % | 158 % |
| Prated | 12.20 kW | 12.10 kW |
| SCOP | 5.82 | 4.16 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.52 kW | 7.36 kW |
| COP Tj = -7°C | 5.77 | 3.91 |
| Cdh Tj = -7 °C | 0.993 | 0.995 |
| Pdh Tj = +2°C | 4.88 kW | 4.56 kW |
| COP Tj = +2°C | 6.03 | 4.38 |
| Cdh Tj = +2 °C | 0.989 | 0.992 |
| Pdh Tj = +7°C | 3.97 kW | 3.55 kW |
| COP Tj = +7°C | 5.96 | 4.61 |
| Cdh Tj = +7 °C | 0.987 | 0.989 |
| Pdh Tj = 12°C | 3.46 kW | 3.59 kW |
| COP Tj = 12°C | 5.80 | 5.09 |
| Cdh Tj = +12 °C | 0.986 | 0.988 |
| Pdh Tj = Tbiv | 12.20 kW | 12.07 kW |
| COP Tj = Tbiv | 4.81 | 3.18 |

| | | |
|---|---|---|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.20 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 3.18 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 5167 kWh | 7172 kWh |

## EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

## EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 214 % | 156 % |
| Prated | 12.20 kW | 12.10 kW |
| SCOP | 5.55 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 12.20 kW | 12.07 kW |
| COP Tj = +2°C | 4.81 | 3.18 |
| Cdh Tj = +2 °C | 0.996 | 0.998 |
| Pdh Tj = +7°C | 7.87 kW | 7.94 kW |
| COP Tj = +7°C | 5.55 | 3.89 |
| Cdh Tj = +7 °C | 0.994 | 0.996 |
| Pdh Tj = 12°C | 3.78 kW | 3.69 kW |
| COP Tj = 12°C | 5.72 | 4.44 |
| Cdh Tj = +12 °C | 0.987 | 0.990 |
| Pdh Tj = Tbiv | 12.20 kW | 12.07 kW |
| COP Tj = Tbiv | 4.81 | 3.18 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.20 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 3.18 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |

| | | |
|---|---|---|
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 2935 kWh | 3956 kWh |

Water/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 | 6.06 kW | 8.10 kW |
| El input | 0.90 kW | 2.09 kW |
| COP | 6.72 | 3.88 |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 313 % | 213 % |
| Prated | 12.10 kW | 12.00 kW |
| SCOP | 8.02 | 5.52 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.90 kW | 10.83 kW |
| COP Tj = -7°C | 6.89 | 4.20 |
| Cdh Tj = -7 °C | 0.994 | 0.997 |
| Pdh Tj = +2°C | 6.60 kW | 6.56 kW |
| COP Tj = +2°C | 8.07 | 5.58 |
| Cdh Tj = +2 °C | 0.990 | 0.993 |
| Pdh Tj = +7°C | 4.27 kW | 4.28 kW |
| COP Tj = +7°C | 8.50 | 6.14 |
| Cdh Tj = +7 °C | 0.984 | 0.988 |
| Pdh Tj = 12°C | 4.02 kW | 4.01 kW |
| COP Tj = 12°C | 9.05 | 6.81 |
| Cdh Tj = +12 °C | 0.982 | 0.986 |
| Pdh Tj = Tbiv | 12.15 kW | 12.05 kW |
| COP Tj = Tbiv | 6.63 | 3.96 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.15 kW | 12.05 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.63 | 3.96 |

| | | |
|---|---|---|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 3118 kWh | 4489 kWh |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 324 % | 220 % |
| Prated | 12.20 kW | 12.00 kW |
| SCOP | 8.31 | 5.70 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.46 kW | 7.46 kW |
| COP Tj = -7°C | 8.02 | 5.35 |
| Cdh Tj = -7 °C | 0.991 | 0.994 |
| Pdh Tj = +2°C | 4.57 kW | 4.58 kW |
| COP Tj = +2°C | 8.67 | 6.03 |
| Cdh Tj = +2 °C | 0.984 | 0.989 |
| Pdh Tj = +7°C | 4.02 kW | 4.03 kW |
| COP Tj = +7°C | 9.05 | 6.62 |
| Cdh Tj = +7 °C | 0.982 | 0.986 |
| Pdh Tj = 12°C | 4.03 kW | 4.04 kW |
| COP Tj = 12°C | 8.81 | 7.20 |
| Cdh Tj = +12 °C | 0.982 | 0.985 |
| Pdh Tj = Tbiv | 12.15 kW | 12.05 kW |
| COP Tj = Tbiv | 6.63 | 3.96 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.15 kW | 12.05 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.63 | 3.96 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |

| | | |
|---|---|---|
| Annual energy consumption Qhe | 3621 kWh | 5190 kWh |

| EN 14825 \| Warmer Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 317 % | 213 % |
| Prated | 12.10 kW | 12.00 kW |
| SCOP | 8.13 | 5.52 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 12.15 kW | 12.05 kW |
| COP Tj = +2°C | 6.63 | 3.96 |
| Cdh Tj = +2 °C | 0.995 | 0.997 |
| Pdh Tj = +7°C | 7.97 kW | 7.94 kW |
| COP Tj = +7°C | 7.78 | 5.05 |
| Cdh Tj = +7 °C | 0.992 | 0.994 |
| Pdh Tj = 12°C | 4.04 kW | 4.04 kW |
| COP Tj = 12°C | 8.83 | 6.33 |
| Cdh Tj = +12 °C | 0.982 | 0.987 |
| Pdh Tj = Tbiv | 12.15 kW | 12.05 kW |
| COP Tj = Tbiv | 6.63 | 3.96 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.15 kW | 12.05 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.63 | 3.96 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | kW | kW |
| Annual energy consumption Qhe | 1987 kWh | 2902 kWh |

| Model ETERA M-1 HT / HK UF E | |
|---|---|
| Model name | ETERA M-1 HT / HK UF E |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder, Warmer, Warmer Climate, Colder Climate |
| Reversibility | Yes |
| 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 |
| Starting and operating test | passed |

| EN 14511-2 \| Heating | Low temperature | Medium temperature |
|---|---|---|
| Heat output | 6.11 kW | 8.10 kW |
| El input | 1.23 kW | 2.56 kW |
| COP | 4.97 | 3.17 |

| EN 12102-1 \| Average Climate | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

| EN 14825 \| Average Climate | Low temperature | Medium temperature |
|---|---|---|
| ηs | 220 % | 162 % |
| Prated | 12.10 kW | 12.10 kW |
| SCOP | 5.71 | 4.24 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.80 kW | 10.70 kW |
| COP Tj = -7°C | 4.97 | 3.35 |
| Cdh Tj = -7 °C | 0.996 | 0.997 |
| Pdh Tj = +2°C | 6.84 kW | 6.68 kW |
| COP Tj = +2°C | 5.79 | 4.29 |
| Cdh Tj = +2 °C | 0.993 | 0.995 |
| Pdh Tj = +7°C | 4.50 kW | 4.30 kW |
| COP Tj = +7°C | 6.00 | 4.62 |

| | | |
|---|---|---|
| Cdh Tj = +7 °C | 0.989 | 0.991 |
| Pdh Tj = 12°C | 4.02 kW | 4.07 kW |
| COP Tj = 12°C | 6.14 | 5.06 |
| Cdh Tj = +12 °C | 0.988 | 0.990 |
| Pdh Tj = Tbiv | 12.18 kW | 12.07 kW |
| COP Tj = Tbiv | 4.80 | 3.11 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.18 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.80 | 3.11 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.997 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4378 kWh | 5895 kWh |

## EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

## EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 226 % | 165 % |
| Prated | 12.10 kW | 12.10 kW |
| SCOP | 5.85 | 4.32 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.54 kW | 7.46 kW |
| COP Tj = -7°C | 5.79 | 4.10 |
| Cdh Tj = -7 °C | 0.994 | 0.995 |
| Pdh Tj = +2°C | 4.74 kW | 4.57 kW |
| COP Tj = +2°C | 6.02 | 4.53 |
| Cdh Tj = +2 °C | 0.990 | 0.992 |
| Pdh Tj = +7°C | 4.02 kW | 4.09 kW |
| COP Tj = +7°C | 6.14 | 4.99 |
| Cdh Tj = +7 °C | 0.988 | 0.990 |
| Pdh Tj = 12°C | 3.98 kW | 4.01 kW |
| COP Tj = 12°C | 6.09 | 5.16 |
| Cdh Tj = +12 °C | 0.988 | 0.990 |
| Pdh Tj = Tbiv | 12.18 kW | 12.07 kW |
| COP Tj = Tbiv | 4.80 | 3.11 |

| | | |
|---|---|---|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.18 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.80 | 3.11 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.997 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 5094 kWh | 6898 kWh |

## EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 34 dB(A) | 36 dB(A) |

## EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 214 % | 160 % |
| Prated | 12.10 kW | 12.10 kW |
| SCOP | 5.55 | 4.20 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 12.18 kW | 12.07 kW |
| COP Tj = +2°C | 4.80 | 3.11 |
| Cdh Tj = +2 °C | 0.997 | 0.998 |
| Pdh Tj = +7°C | 7.93 kW | 7.73 kW |
| COP Tj = +7°C | 5.57 | 3.88 |
| Cdh Tj = +7 °C | 0.994 | 0.996 |
| Pdh Tj = 12°C | 3.61 kW | 4.02 kW |
| COP Tj = 12°C | 5.69 | 4.72 |
| Cdh Tj = +12 °C | 0.987 | 0.990 |
| Pdh Tj = Tbiv | 12.18 kW | 12.07 kW |
| COP Tj = Tbiv | 4.80 | 3.11 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.18 kW | 12.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.80 | 3.11 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.997 | 0.998 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |

| | | |
|---|---|---|
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2915 kWh | 3852 kWh |

## Water/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 | 6.02 kW | 8.07 kW |
| El input | 0.94 kW | 2.07 kW |
| COP | 6.40 | 3.90 |

### EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 301 % | 211 % |
| Prated | 12.10 kW | 12.10 kW |
| SCOP | 7.72 | 5.47 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.88 kW | 10.87 kW |
| COP Tj = -7°C | 6.94 | 4.28 |
| Cdh Tj = -7 °C | 0.995 | 0.997 |
| Pdh Tj = +2°C | 6.70 kW | 6.67 kW |
| COP Tj = +2°C | 7.65 | 5.52 |
| Cdh Tj = +2 °C | 0.991 | 0.993 |
| Pdh Tj = +7°C | 4.33 kW | 4.35 kW |
| COP Tj = +7°C | 8.06 | 5.98 |
| Cdh Tj = +7 °C | 0.985 | 0.989 |
| Pdh Tj = 12°C | 4.02 kW | 3.99 kW |
| COP Tj = 12°C | 9.02 | 6.66 |
| Cdh Tj = +12 °C | 0.983 | 0.986 |
| Pdh Tj = Tbiv | 12.16 kW | 12.15 kW |
| COP Tj = Tbiv | 6.74 | 4.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.16 kW | 12.15 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.74 | 4.05 |

| | | |
|---|---|---|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 3239 kWh | 4572 kWh |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 311 % | 215 % |
| Prated | 12.10 kW | 12.10 kW |
| SCOP | 7.97 | 5.58 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.44 kW | 7.52 kW |
| COP Tj = -7°C | 7.73 | 5.26 |
| Cdh Tj = -7 °C | 0.991 | 0.994 |
| Pdh Tj = +2°C | 4.53 kW | 4.61 kW |
| COP Tj = +2°C | 8.13 | 5.84 |
| Cdh Tj = +2 °C | 0.986 | 0.989 |
| Pdh Tj = +7°C | 4.02 kW | 4.00 kW |
| COP Tj = +7°C | 9.02 | 6.44 |
| Cdh Tj = +7 °C | 0.983 | 0.987 |
| Pdh Tj = 12°C | 3.98 kW | 4.07 kW |
| COP Tj = 12°C | 8.32 | 7.04 |
| Cdh Tj = +12 °C | 0.984 | 0.986 |
| Pdh Tj = Tbiv | 12.16 kW | 12.15 kW |
| COP Tj = Tbiv | 6.74 | 4.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.16 kW | 12.15 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.74 | 4.05 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |

| | | |
|---|---|---|
| Annual energy consumption Qhe | 3744 kWh | 5348 kWh |

| EN 14825 \| Warmer Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 301 % | 207 % |
| Prated | 12.10 kW | 12.10 kW |
| SCOP | 7.72 | 5.38 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 12.16 kW | 12.15 kW |
| COP Tj = +2°C | 6.74 | 4.05 |
| Cdh Tj = +2 °C | 0.995 | 0.997 |
| Pdh Tj = +7°C | 7.97 kW | 7.89 kW |
| COP Tj = +7°C | 7.49 | 4.96 |
| Cdh Tj = +7 °C | 0.992 | 0.995 |
| Pdh Tj = 12°C | 4.02 kW | 3.97 kW |
| COP Tj = 12°C | 8.19 | 6.06 |
| Cdh Tj = +12 °C | 0.984 | 0.988 |
| Pdh Tj = Tbiv | 12.16 kW | 12.15 kW |
| COP Tj = Tbiv | 6.74 | 4.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.16 kW | 12.15 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 6.74 | 4.05 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.997 |
| WTOL | 67 °C | 67 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2093 kWh | 3005 kWh |