This information was generated by the HP KEYMARK database on 17 Dec 2020

| Summary of | CTC EcoPart 408 | Reg. No. | 012-063 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | Enertech CTC AB | | |
| Address | Box 309, Näsvägen | Zip | SE-381 26 |
| City | Ljungby | Country | Sweden |
| Certification Body | RISE CERT | | |
| Name of testing laboratory | RISE | | |
| Subtype title | CTC EcoPart 408 | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R407c | | |
| Mass Of Refrigerant | 1.9 kg | | |

# Model: CTC EcoPart 408 1x230V

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.19 kW | 7.55 kW |
| El input | 1.79 kW | 2.53 kW |
| COP | 4.58 | 2.99 |
| Indoor water flow rate | 1.38 m³/h | 1.38 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 46 dB(A) | 46 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 180 % | 136 % |
| Prated | 6.45 kW | 8.72 kW |
| SCOP | 4.70 | 3.60 |
| Tbiv | -7 °C | -6 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.20 kW | 7.70 kW |
| COP Tj = -7°C | 4.76 | 3.28 |
| Pdh Tj = +2°C | 8.30 kW | 7.90 kW |
| COP Tj = +2°C | 4.86 | 3.62 |
| Pdh Tj = +7°C | 8.30 kW | 8.00 kW |
| COP Tj = +7°C | 5.04 | 4.00 |
| Pdh Tj = 12°C | 8.40 kW | 8.10 kW |
| COP Tj = 12°C | 5.21 | 4.38 |
| Pdh Tj = Tbiv | 8.20 kW | 7.70 kW |
| COP Tj = Tbiv | 4.67 | 3.13 |

| | | |
|---|---|---|
| Pdh Tj = TOL | 8.19 kW | 7.64 kW |
| COP Tj = TOL | 4.58 | 3.13 |
| Cdh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 18 W | 18 W |
| PTO | 13 W | 4 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 1.10 kW | 1.10 kW |
| Annual energy consumption Qhe | 4092 kWh | 4995 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 46 dB(A) | 46 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 183 % | 139 % |
| Prated | 8.92 kW | 8.62 kW |

| | | |
|---|---|---|
| SCOP | 4.80 | 7.70 |
| Tbiv | -19 °C | -18 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 8.30 kW | 7.80 kW |
| COP Tj = -7°C | 4.88 | 3.55 |
| Pdh Tj = +2°C | 8.30 kW | 8.00 kW |
| COP Tj = +2°C | 5.04 | 3.92 |
| Pdh Tj = +7°C | 8.40 kW | 8.10 kW |
| COP Tj = +7°C | 5.16 | 4.27 |
| Pdh Tj = 12°C | 8.40 kW | 8.20 kW |
| COP Tj = 12°C | 5.19 | 4.52 |
| Pdh Tj = Tbiv | 8.20 kW | 7.70 kW |
| COP Tj = Tbiv | 4.67 | 3.28 |
| Pdh Tj = TOL | 8.19 kW | 7.64 kW |
| COP Tj = TOL | 4.58 | 3.13 |
| Cdh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 18 W | 18 W |
| PTO | 13 W | 4 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |

| | | |
|---|---|---|
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.70 kW | 0.70 kW |
| Annual energy consumption Qhe | 4612 kWh | 4612 kWh |

# Model: CTC EcoPart 408 3x400V

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.19 kW | 7.55 kW |
| El input | 1.79 kW | 2.53 kW |
| COP | 4.58 | 2.99 |
| Indoor water flow rate | 1.38 m³/h | 1.38 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 46 dB(A) | 46 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 180 % | 136 % |
| Prated | 6.45 kW | 8.72 kW |
| SCOP | 4.70 | 3.60 |
| Tbiv | -7 °C | -6 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.20 kW | 7.70 kW |
| COP Tj = -7°C | 4.76 | 3.28 |
| Pdh Tj = +2°C | 8.30 kW | 7.90 kW |
| COP Tj = +2°C | 4.86 | 3.62 |
| Pdh Tj = +7°C | 8.30 kW | 8.00 kW |
| COP Tj = +7°C | 5.04 | 4.00 |
| Pdh Tj = 12°C | 8.40 kW | 8.10 kW |
| COP Tj = 12°C | 5.21 | 4.38 |
| Pdh Tj = Tbiv | 8.20 kW | 7.70 kW |
| COP Tj = Tbiv | 4.67 | 3.13 |

| | | |
|---|---|---|
| Pdh Tj = TOL | 8.19 kW | 7.64 kW |
| COP Tj = TOL | 4.58 | 3.13 |
| Cdh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 18 W | 18 W |
| PTO | 13 W | 4 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 1.10 kW | 1.10 kW |
| Annual energy consumption Qhe | 4092 kWh | 4995 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 46 dB(A) | 46 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 183 % | 139 % |
| Prated | 8.92 kW | 8.62 kW |

| | | |
|---|---|---|
| SCOP | 4.80 | 7.70 |
| Tbiv | -19 °C | -18 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 8.30 kW | 7.80 kW |
| COP Tj = -7°C | 4.88 | 3.55 |
| Pdh Tj = +2°C | 8.30 kW | 8.00 kW |
| COP Tj = +2°C | 5.04 | 3.92 |
| Pdh Tj = +7°C | 8.40 kW | 8.10 kW |
| COP Tj = +7°C | 5.16 | 4.27 |
| Pdh Tj = 12°C | 8.40 kW | 8.20 kW |
| COP Tj = 12°C | 5.19 | 4.52 |
| Pdh Tj = Tbiv | 8.20 kW | 7.70 kW |
| COP Tj = Tbiv | 4.67 | 3.28 |
| Pdh Tj = TOL | 8.19 kW | 7.64 kW |
| COP Tj = TOL | 4.58 | 3.13 |
| Cdh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 18 W | 18 W |
| PTO | 13 W | 4 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |

| | | |
|---|---|---|
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.70 kW | 0.70 kW |
| Annual energy consumption Qhe | 4612 kWh | 4612 kWh |