## Subtype CTC EcoPart 408

| | |
|---|---|
| Certificate Holder | CTC AB |
| Address | Box 309, Näsvägen |
| ZIP | SE-341 26 |
| City | Ljungby |
| Country | SE |
| Certification Body | RISE CERT |
| Subtype title | CTC EcoPart 408 |
| Registration number | 012-063 |
| Heat Pump Type | Brine/Water |
| Refrigerant | R407c |
| Mass of Refrigerant | 1.9 kg |
| Certification Date | 11.12.2023 |
| Testing basis | EN 14511:2013, EN 14825:2013, EN 12102:2013 |

## Model CTC EcoPart 408 1x230V

| | |
|---|---|
| Model name | CTC EcoPart 408 1x230V |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder Climate |
| 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 |

### EN 14511-2 | Heating

| | 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 |

### EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 46 dB(A) | 46 dB(A) |

### EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 180 % | 136 % |
| Prated | 9.29 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 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 8.30 kW | 7.90 kW |
| COP Tj = +2°C | 4.86 | 3.62 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 8.30 kW | 8.00 kW |
| COP Tj = +7°C | 5.04 | 4.00 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 8.40 kW | 8.10 kW |

| | | |
|---|---|---|
| COP Tj = 12°C | 5.21 | 4.38 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 8.20 kW | 7.70 kW |
| COP Tj = Tbiv | 4.67 | 3.13 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.19 kW | 7.64 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.58 | 3.13 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.980 | 0.990 |
| 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 |

## EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 46 dB(A) | 46 dB(A) |

## EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 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 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 8.30 kW | 8.00 kW |
| COP Tj = +2°C | 5.04 | 3.92 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 8.40 kW | 8.10 kW |
| COP Tj = +7°C | 5.16 | 4.27 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 8.40 kW | 8.20 kW |
| COP Tj = 12°C | 5.19 | 4.52 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 8.20 kW | 7.70 kW |
| COP Tj = Tbiv | 4.67 | 3.28 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.19 kW | 7.64 kW |

| | | |
|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.58 | 3.13 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.980 | 0.990 |
| 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 | 0.98 kW |
| Annual energy consumption Qhe | 4612 kWh | 4612 kWh |

| Model CTC EcoPart 408 3x400V | |
|---|---|
| Model name | CTC EcoPart 408 3x400V |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder Climate |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

| General data | |
|---|---|
| Power supply | 3x400V 50Hz |
| Off-peak product | No |

Brine/Water

EN 14511-4 | Heating

| | |
|---|---|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

EN 14511-2 | Heating

| | 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 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
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| Sound power level indoor | 46 dB(A) | 46 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 180 % | 136 % |
| Prated | 9.29 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 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 8.30 kW | 7.90 kW |
| COP Tj = +2°C | 4.86 | 3.62 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 8.30 kW | 8.00 kW |
| COP Tj = +7°C | 5.04 | 4.00 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 8.40 kW | 8.10 kW |

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|---|---|---|
| COP Tj = 12°C | 5.21 | 4.38 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 8.20 kW | 7.70 kW |
| COP Tj = Tbiv | 4.67 | 3.13 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.19 kW | 7.64 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.58 | 3.13 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.980 | 0.990 |
| WTOL | 65 °C | 65 °C |
| Poff | 18 W | 18 W |
| PTO | 13 W | 4 W |
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| 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 |

## EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
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## EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
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| ηs | 183 % | 139 % |
| Prated | 8.92 kW | 8.62 kW |
| SCOP | 4.80 | 7.70 |
| Tbiv | -19 °C | -18 °C |
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| COP Tj = -7°C | 4.88 | 3.55 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 8.30 kW | 8.00 kW |
| COP Tj = +2°C | 5.04 | 3.92 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 8.40 kW | 8.10 kW |
| COP Tj = +7°C | 5.16 | 4.27 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 8.40 kW | 8.20 kW |
| COP Tj = 12°C | 5.19 | 4.52 |
| Cdh Tj = +12 °C | | |
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|---|---|---|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.58 | 3.13 |
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| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.70 kW | 0.98 kW |
| Annual energy consumption Qhe | 4612 kWh | 4612 kWh |