

Subtype CTC EcoPart 410

| | |
|---------------------|-------------------|
| Certificate Holder | Enertech CTC AB |
| Address | Box 309, Näsvägen |
| ZIP | SE-341 26 |
| City | Ljungby |
| Country | SE |
| Certification Body | RISE CERT |
| Subtype title | CTC EcoPart 410 |
| Registration number | 012-064 |
| Heat Pump Type | Brine/Water |
| Refrigerant | R407c |
| Mass of Refrigerant | 1.9 kg |
| Certification Date | 22.05.2023 |

Model CTC EcoPart 410 1x230V

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|-------------------------------------|------------------------|
| Model name | CTC EcoPart 410 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

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

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 49 dB(A) | 49 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 181 % | 138 % |
| Prated | 11.32 kW | 10.60 kW |
| SCOP | 4.70 | 3.65 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.00 kW | 9.40 kW |
| COP Tj = -7°C | 4.69 | 3.28 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 10.10 kW | 9.50 kW |
| COP Tj = +2°C | 1.88 | 3.66 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 10.20 kW | 9.70 kW |
| COP Tj = +7°C | 5.10 | 4.03 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 10.30 kW | 9.90 kW |
| COP Tj = 12°C | 5.22 | 4.41 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 10.00 kW | 9.40 kW |
| COP Tj = Tbiv | 4.69 | 3.28 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.98 kW | 9.30 kW |

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.60 | 3.10 |
| 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 | 14 W | 3 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.35 kW | 1.30 kW |
| Annual energy consumption Qhe | 4944 kWh | 5999 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 49 dB(A) | 49 dB(A) |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 184 % | 141 % |
| Prated | 10.56 kW | 10.48 kW |
| SCOP | 4.80 | 3.70 |
| Tbiv | -20 °C | -18 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 10.10 kW | 9.50 kW |
| COP Tj = -7°C | 4.89 | 3.58 |
| Pdh Tj = +2°C | 10.20 kW | 9.70 kW |
| COP Tj = +2°C | 5.05 | 3.96 |
| Pdh Tj = +7°C | 10.20 kW | 9.80 kW |
| COP Tj = +7°C | 5.16 | 4.29 |
| Pdh Tj = 12°C | 10.20 kW | 10.00 kW |
| COP Tj = 12°C | 5.19 | 4.54 |
| Pdh Tj = Tbiv | 10.00 kW | 9.40 kW |
| COP Tj = Tbiv | 4.66 | 3.27 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.98 kW | 9.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.60 | 3.10 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 18 W | 18 W |
| PTO | 14 W | 3 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |

| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.20 kW |
| Annual energy consumption Q _{he} | 5414 kWh | 6939 kWh |

Model CTC EcoPart 410 3x400V

| | |
|-------------------------------------|------------------------|
| Model name | CTC EcoPart 410 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

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| Complete power supply failure | passed |

EN 12102-1 | Average Climate

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| Pdh Tj = +7°C | 10.20 kW | 9.80 kW |
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