

This information was generated by the HP KEYMARK database on 7 Jul 2022

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|---------------------|-------------------|----------|-----------|
| Summary of | CTC EcoAir 520M | Reg. No. | 012-062 |
| Certificate Holder | | | |
| Name | Eneritech CTC AB | | |
| Address | Box 309, Näsvägen | Zip | SE-381 26 |
| City | Ljungby | Country | Sweden |
| Certification Body | RISE CERT | | |
| Subtype title | CTC EcoAir 520M | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R407c | | |
| Mass of Refrigerant | 2.7 kg | | |

Model: CTC EcoAir 520M

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | CTC EcoAir 520M |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | Colder Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|----------------|-------------|
| Power supply | 3x400V 50Hz |
| Phase-out Date | 25.10.2023 |

Heating

| 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 |
| Defrost test | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 6.14 kW | 9.59 kW |
| El input | 1.19 kW | 3.06 kW |
| COP | 5.16 | 3.13 |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 55 dB(A) | 55 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 149 % | 121 % |
| Prated | 11.00 kW | 10.00 kW |
| SCOP | 3.80 | 3.10 |
| Tbiv | -13 °C | -14 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 6.70 kW | 6.10 kW |
| COP Tj = -7°C | 3.42 | 2.49 |
| Pdh Tj = +2°C | 4.10 kW | 4.10 kW |
| COP Tj = +2°C | 4.51 | 4.12 |
| Pdh Tj = +7°C | 5.00 kW | 5.00 kW |
| COP Tj = +7°C | 6.57 | 5.40 |
| Pdh Tj = 12°C | 5.60 kW | 5.70 kW |
| COP Tj = 12°C | 7.53 | 6.84 |
| Pdh Tj = Tbiv | 7.90 kW | 7.80 kW |

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|---|-------------|-------------|
| COP $T_j = T_{biv}$ | 2.26 | 1.60 |
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.60 kW | 5.40 kW |
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 1.70 | 1.01 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 15 W | 15 W |
| PTO | 10 W | 10 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.40 kW | 4.60 kW |
| Annual energy consumption Q _{he} | 7156 kWh | 7956 kWh |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 55 dB(A) | 55 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 177 % | 132 % |

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| | | |
|---|---------|---------|
| Prated | 7.90 kW | 8.50 kW |
| SCOP | 4.50 | 3.40 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.90 kW | 7.60 kW |
| COP Tj = -7°C | 3.09 | 2.07 |
| Pdh Tj = +2°C | 4.20 kW | 4.60 kW |
| COP Tj = +2°C | 4.82 | 3.49 |
| Pdh Tj = +7°C | 5.00 kW | 4.80 kW |
| COP Tj = +7°C | 6.18 | 4.69 |
| Pdh Tj = 12°C | 5.70 kW | 5.80 kW |
| COP Tj = 12°C | 7.62 | 6.36 |
| Pdh Tj = Tbiv | 8.00 kW | 8.40 kW |
| COP Tj = Tbiv | 2.72 | 1.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.00 kW | 8.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.72 | 1.71 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 15 W | 15 W |
| PTO | 10 W | 10 W |
| PSB | 18 W | 0 W |

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| | | |
|--|-------------|-------------|
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.10 kW |
| Annual energy consumption Q _{he} | 3526 kWh | 5090 kWh |