

This information was generated by the HP KEYMARK database on 21 Jun 2022

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|                     |                   |          |               |
|---------------------|-------------------|----------|---------------|
| Summary of          | CTC GSi 8         | Reg. No. | 012-SC0346-19 |
| Certificate Holder  |                   |          |               |
| Name                | Enertech CTC AB   |          |               |
| Address             | Box 309, Näsvägen | Zip      | SE-381 26     |
| City                | Ljungby           | Country  | Sweden        |
| Certification Body  | RISE CERT         |          |               |
| Subtype title       | CTC GSi 8         |          |               |
| Heat Pump Type      | Brine/Water       |          |               |
| Refrigerant         | R407c             |          |               |
| Mass of Refrigerant | 2.4 kg            |          |               |
| Certification Date  | 05.11.2019        |          |               |

## Model: CTC GSi 8

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | CTC GSi 8                |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor                   |
| Climate Zone                        | Colder Climate           |
| Reversibility                       | No                       |
| Cooling mode application (optional) | n/a                      |

| General Data     |             |
|------------------|-------------|
| Power supply     | 3x400V 50Hz |
| Off-peak product | No          |
| Phase-out Date   | 25.10.2023  |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 6.08 kW         | 5.24 kW            |
| El input    | 1.27 kW         | 1.78 kW            |
| COP         | 4.78            | 2.95               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Starting and operating test                | passed |

### Colder Climate

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### EN 12102-1

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

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 217 %           | 162 %              |
| Prated         | 7.00 kW         | 7.00 kW            |
| SCOP           | 5.63            | 4.24               |
| Tbiv           | -22 °C          | -22 °C             |
| TOL            | -22 °C          | -22 °C             |
| Pdh Tj = -7°C  | 4.18 kW         | 4.42 kW            |
| COP Tj = -7°C  | 5.52            | 4.01               |
| Cdh Tj = -7 °C | 0.97            | 0.98               |
| Pdh Tj = +2°C  | 2.70 kW         | 2.33 kW            |
| COP Tj = +2°C  | 6.11            | 4.59               |
| Cdh Tj = +2 °C | 0.95            | 0.96               |
| Pdh Tj = +7°C  | 2.64 kW         | 2.35 kW            |
| COP Tj = +7°C  | 6.14            | 5.15               |
| Cdh Tj = +7 °C | 0.95            | 0.95               |
| Pdh Tj = 12°C  | 2.64 kW         | 2.68 kW            |

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|   |             |             |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 6.14        | 5.92        |
| Cdh Tj = +12 °C                                     | 0.95        | 0.95        |
| Pdh Tj = Tbiv                                       | 7.32 kW     | 6.94 kW     |
| COP Tj = Tbiv                                       | 4.56        | 2.88        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.32 kW     | 6.87 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.56        | 2.84        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97        | 0.97        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 23 W        | 23 W        |
| PTO   | 23 W        | 23 W        |
| PSB   | 0 W         | 0 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 3063 kWh    | 4065 kWh    |

## Average Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 34 dB(A)               | 34 dB(A)                  |

| <b>EN 14825</b> |
|-----------------|
|-----------------|

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|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 208 %           | 159 %              |
| Prated          | 7.00 kW         | 7.00 kW            |
| SCOP            | 5.39            | 4.17               |
| Tbiv            | -10 °C          | -10 °C             |
| TOL             | -10 °C          | -10 °C             |
| Pdh Tj = -7°C   | 6.02 kW         | 6.58 kW            |
| COP Tj = -7°C   | 4.75            | 3.02               |
| Cdh Tj = -7 °C  | 0.98            | 0.99               |
| Pdh Tj = +2°C   | 3.61 kW         | 4.31 kW            |
| COP Tj = +2°C   | 5.68            | 4.71               |
| Cdh Tj = +2 °C  | 0.96            | 0.97               |
| Pdh Tj = +7°C   | 2.47 kW         | 2.30 kW            |
| COP Tj = +7°C   | 5.97            | 4.46               |
| Cdh Tj = +7 °C  | 0.94            | 0.94               |
| Pdh Tj = 12°C   | 2.58 kW         | 2.28 kW            |
| COP Tj = 12°C   | 6.05            | 4.86               |
| Cdh Tj = +12 °C | 0.95            | 0.95               |
| Pdh Tj = Tbiv   | 7.32 kW         | 6.91 kW            |
| COP Tj = Tbiv   | 4.56            | 2.66               |

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|   |             |             |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 7.32 kW     | 6.87 kW     |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$       | 4.56        | 2.84        |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.97        | 0.97        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 23 W        | 23 W        |
| PTO   | 23 W        | 23 W        |
| PSB   | 0 W         | 0 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input                              | Electricity | Electricity |
| Supplementary Heater: PSUP  | 0.00 kW     | 0.00 kW     |
| Annual energy consumption $Q_{he}$                                      | 2683 kWh    | 3467 kWh    |

## Domestic Hot Water (DHW)

### Colder Climate

| <b>EN 16147</b>                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 98 %        |
| COP                             | 2.39        |
| Heating up time                 | 01:58 h:min |
| Standby power input             | 79.8 W      |
| Reference hot water temperature | 49.8 °C     |
| Mixed water at 40°C             | 239 l       |

## Average Climate

| <b>EN 16147</b>                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 98 %        |
| COP                             | 2.39        |
| Heating up time                 | 01:58 h:min |
| Standby power input             | 79.8 W      |
| Reference hot water temperature | 49.8 °C     |
| Mixed water at 40°C             | 239 l       |