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| Summary of                 | CTC GSi 8         | Reg. No.  | 012-SC0346-19 |
|----------------------------|-------------------|-----------|---------------|
| Certificate Holder         | <del></del>       |           |               |
| Name                       | Enertech CTC AB   |           |               |
| Address                    | Box 309, Näsvägen | Zip       | SE-381 26     |
| City                       | Ljungby           | Country   | Sweden        |
| Certification Body         | RISE CERT         | RISE CERT |               |
| Name of testing laboratory | DTI, RISE         |           |               |
| 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**

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

## Heating

| EN 14511-2             |                 |                    |  |
|------------------------|-----------------|--------------------|--|
|                        | Low temperature | Medium temperature |  |
| Heat output            | 6.08 kW         | 5.24 kW            |  |
| El input               | 1.27 kW         | 1.78 kW            |  |
| СОР                    | 4.78            | 2.95               |  |
| Indoor water flow rate | 1.20 m³/h       | 0.90 m³/h          |  |

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

## Average Climate

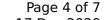
| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 34 dB(A)        | 34 dB(A)           |





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| EN 14825      |                 |                    |
|---------------|-----------------|--------------------|
|               | 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           | 0.98            | 0.99               |
| Pdh Tj = +2°C | 3.61 kW         | 4.31 kW            |
| COP Tj = +2°C | 5.68            | 4.71               |
| Cdh           | 0.96            | 0.97               |
| Pdh Tj = +7°C | 2.47 kW         | 2.30 kW            |
| COP Tj = +7°C | 5.97            | 4.46               |
| Cdh           | 0.94            | 0.94               |
| Pdh Tj = 12°C | 2.58 kW         | 2.28 kW            |
| COP Tj = 12°C | 6.05            | 4.86               |
| Cdh           | 0.95            | 0.95               |
| Pdh Tj = Tbiv | 7.32 kW         | 6.91 kW            |
| COP Tj = Tbiv | 4.56            | 2.66               |





 $$\operatorname{\textit{Page}}$4$ of 7$ This information was generated by the HP KEYMARK database on 17 Dec 2020$ Pdh Tj = TOL7.32 kW 6.87 kW

| COP Tj = TOL                               | 4.56        | 2.84        |
|--|-------------|-------------|
| Cdh  | 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              | 2683 kWh    | 3467 kWh    |

### Colder Climate

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

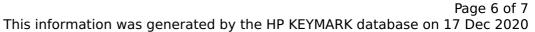
| EN 14825   |                 |                    |
|------------|-----------------|--------------------|
|            | Low temperature | Medium temperature |
| $\eta_{S}$ | 217 %           | 162 %              |
| Prated     | 7.00 kW         | 7.00 kW            |
|            | 1               | 1                  |





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| 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                    | 0.97    | 0.98    |
| Pdh Tj = +2°C          | 2.70 kW | 2.33 kW |
| COP Tj = +2°C          | 6.11    | 4.59    |
| Cdh                    | 0.95    | 0.96    |
| Pdh Tj = +7°C          | 2.64 kW | 2.35 kW |
| $COP Tj = +7^{\circ}C$ | 6.14    | 5.15    |
| Cdh                    | 0.95    | 0.95    |
| Pdh Tj = 12°C          | 2.64 kW | 2.68 kW |
| COP Tj = 12°C          | 6.14    | 5.92    |
| Cdh                    | 0.95    | 0.95    |
| Pdh Tj = Tbiv          | 7.32 kW | 6.94 kW |
| COP Tj = Tbiv          | 4.56    | 2.88    |
| Pdh Tj = TOL           | 7.32 kW | 6.87 kW |
| COP Tj = TOL           | 4.56    | 2.84    |
| Cdh                    | 0.97    | 0.97    |
| WTOL                   | 65 °C   | 65 °C   |





|  | <u> </u>    |             |
|--|-------------|-------------|
| Poff                                       | 23 W        | 23 W        |
| РТО  | 23 W        | 23 W        |
| PSB  | o w         | o w         |
| PCK  | o w         | o 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    |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | XL          |  |
| Efficiency ηDHW                 | 98 %        |  |
| СОР                             | 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 I       |  |

## Colder Climate





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| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency ηDHW                 | 98 %        |
| СОР                             | 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         |