

This information was generated by the HP KEYMARK database on 18 Mar 2022

[Login](#)

| | | | |
|---------------------|------------------------|----------|-------------|
| Summary of | CTC GSi 612 | Reg. No. | 012-C700087 |
| 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 612 | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R407c | | |
| Mass of Refrigerant | 2.4 kg | | |
| Certification Date | 30.11.2020 | | |
| Testing basis | HP Keymark Scheme 2017 | | |

Model: CTC GSi 612

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | CTC GSi 612 |
| 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 |

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 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 39 dB(A) | 39 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 208 % | 155 % |
| Prated | 9.81 kW | 6.80 kW |
| SCOP | 5.40 | 4.10 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.80 kW | 6.00 kW |
| COP Tj = -7°C | 4.59 | 3.25 |
| Pdh Tj = +2°C | 5.40 kW | 3.70 kW |
| COP Tj = +2°C | 5.60 | 4.18 |
| Pdh Tj = +7°C | 3.50 kW | 2.40 kW |
| COP Tj = +7°C | 6.05 | 4.70 |
| Pdh Tj = 12°C | 2.40 kW | 2.40 kW |
| COP Tj = 12°C | 6.03 | 5.34 |
| Pdh Tj = Tbiv | 9.80 kW | 6.70 kW |
| COP Tj = Tbiv | 4.30 | 3.00 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.94 kW | 6.66 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.99 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 23 W | 23 W |
| PTO | 0 W | 6 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.10 kW | 0.10 kW |
| Annual energy consumption Qhe | 3800 kWh | 3444 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 39 dB(A) | 39 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 208 % | 155 % |
| Prated | 11.40 kW | 7.20 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|---------|
| SCOP | 5.50 | 4.30 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.00 kW | 4.46 kW |
| COP Tj = -7°C | 5.33 | 4.01 |
| Pdh Tj = +2°C | 4.20 kW | 2.70 kW |
| COP Tj = +2°C | 5.90 | 4.66 |
| Pdh Tj = +7°C | 2.80 kW | 2.40 kW |
| COP Tj = +7°C | 5.95 | 5.17 |
| Pdh Tj = 12°C | 2.40 kW | 2.40 kW |
| COP Tj = 12°C | 5.74 | 5.51 |
| Pdh Tj = Tbiv | 11.50 kW | 7.50 kW |
| COP Tj = Tbiv | 3.93 | 2.86 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.45 kW | 7.54 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.86 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 13 W | 23 W |
| PTO | 34 W | 0 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 3800 kWh | 3444 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 100 % |
| COP | 2.50 |
| Heating up time | 1:45 h:min |
| Standby power input | 59.0 W |
| Reference hot water temperature | 49.5 °C |
| Mixed water at 40°C | 235 l |

Colder Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 100 % |
| COP | 2.50 |
| Heating up time | 1:45 h:min |
| Standby power input | 59.0 W |
| Reference hot water temperature | 49.5 °C |
| Mixed water at 40°C | 235 l |

Model: CTC EcoPart 612M

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | CTC EcoPart 612M |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

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 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 39 dB(A) | 39 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 208 % | 155 % |
| Prated | 9.81 kW | 6.80 kW |
| SCOP | 5.40 | 4.10 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.80 kW | 6.00 kW |
| COP Tj = -7°C | 4.59 | 3.25 |
| Pdh Tj = +2°C | 5.40 kW | 3.70 kW |
| COP Tj = +2°C | 5.60 | 4.18 |
| Pdh Tj = +7°C | 3.50 kW | 2.40 kW |
| COP Tj = +7°C | 6.05 | 4.70 |
| Pdh Tj = 12°C | 2.40 kW | 2.40 kW |
| COP Tj = 12°C | 6.03 | 5.34 |
| Pdh Tj = Tbiv | 9.80 kW | 6.70 kW |
| COP Tj = Tbiv | 4.30 | 3.00 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.94 kW | 6.66 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.99 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 23 W | 23 W |
| PTO | 0 W | 6 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.10 kW | 0.10 kW |
| Annual energy consumption Qhe | 3800 kWh | 3444 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 39 dB(A) | 39 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 208 % | 155 % |
| Prated | 11.40 kW | 7.20 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|---------|
| SCOP | 5.50 | 4.30 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.00 kW | 4.46 kW |
| COP Tj = -7°C | 5.33 | 4.01 |
| Pdh Tj = +2°C | 4.20 kW | 2.70 kW |
| COP Tj = +2°C | 5.90 | 4.66 |
| Pdh Tj = +7°C | 2.80 kW | 2.40 kW |
| COP Tj = +7°C | 5.95 | 5.17 |
| Pdh Tj = 12°C | 2.40 kW | 2.40 kW |
| COP Tj = 12°C | 5.74 | 5.51 |
| Pdh Tj = Tbiv | 11.50 kW | 7.50 kW |
| COP Tj = Tbiv | 3.93 | 2.86 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.45 kW | 7.54 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.86 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 13 W | 23 W |
| PTO | 34 W | 0 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 3800 kWh | 3444 kWh |

Model: CTC EcoPart i612M

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | CTC EcoPart i612M |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

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 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 39 dB(A) | 39 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 208 % | 155 % |
| Prated | 9.81 kW | 6.80 kW |
| SCOP | 5.40 | 4.10 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.80 kW | 6.00 kW |
| COP Tj = -7°C | 4.59 | 3.25 |
| Pdh Tj = +2°C | 5.40 kW | 3.70 kW |
| COP Tj = +2°C | 5.60 | 4.18 |
| Pdh Tj = +7°C | 3.50 kW | 2.40 kW |
| COP Tj = +7°C | 6.05 | 4.70 |
| Pdh Tj = 12°C | 2.40 kW | 2.40 kW |
| COP Tj = 12°C | 6.03 | 5.34 |
| Pdh Tj = Tbiv | 9.80 kW | 6.70 kW |
| COP Tj = Tbiv | 4.30 | 3.00 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.94 kW | 6.66 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.99 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 23 W | 23 W |
| PTO | 0 W | 6 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.10 kW | 0.10 kW |
| Annual energy consumption Qhe | 3800 kWh | 3444 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 39 dB(A) | 39 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 208 % | 155 % |
| Prated | 11.40 kW | 7.20 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|---------|
| SCOP | 5.50 | 4.30 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.00 kW | 4.46 kW |
| COP Tj = -7°C | 5.33 | 4.01 |
| Pdh Tj = +2°C | 4.20 kW | 2.70 kW |
| COP Tj = +2°C | 5.90 | 4.66 |
| Pdh Tj = +7°C | 2.80 kW | 2.40 kW |
| COP Tj = +7°C | 5.95 | 5.17 |
| Pdh Tj = 12°C | 2.40 kW | 2.40 kW |
| COP Tj = 12°C | 5.74 | 5.51 |
| Pdh Tj = Tbiv | 11.50 kW | 7.50 kW |
| COP Tj = Tbiv | 3.93 | 2.86 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.45 kW | 7.54 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.86 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 13 W | 23 W |
| PTO | 34 W | 0 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 3800 kWh | 3444 kWh |