

## Subtype CTC GS 606

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| Certificate Holder  | CTC AB                                                      |
| Address             | Box 309, Näsvägen                                           |
| ZIP                 | SE-341 26                                                   |
| City                | Ljungby                                                     |
| Country             | SE                                                          |
| Certification Body  | RISE CERT                                                   |
| Subtype title       | CTC GS 606                                                  |
| Registration number | 012-C700089                                                 |
| Heat Pump Type      | Brine/Water                                                 |
| Refrigerant         | R407c                                                       |
| Mass of Refrigerant | 1.9 kg                                                      |
| Certification Date  | 22.05.2023                                                  |
| Testing basis       | EN 14511:2013, EN16147:2017, EN 14825:2016,<br>EN12102:2013 |

| Model CTC GS 606                           |                 |                    |
|--------------------------------------------|-----------------|--------------------|
| Model name                                 | CTC GS 606      |                    |
| Application                                | Heating + DHW   |                    |
| 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 16147   Average Climate                 |                 |                    |
| Declared load profile                      | XL              |                    |
| Efficiency $\eta_{DHW}$                    | 100 %           |                    |
| COP                                        | 2.50            |                    |
| Heating up time                            | 2:14 h:min      |                    |
| Standby power input                        | 57.0 W          |                    |
| Reference hot water temperature            | 49.7 °C         |                    |
| Mixed water at 40°C                        | 239 l           |                    |
| EN 16147   Colder Climate                  |                 |                    |
| Declared load profile                      | XL              |                    |
| Efficiency $\eta_{DHW}$                    | 100 %           |                    |
| COP                                        | 2.50            |                    |
| Heating up time                            | 2:14 h:min      |                    |
| Standby power input                        | 57.0 W          |                    |
| Reference hot water temperature            | 49.7 °C         |                    |
| Mixed water at 40°C                        | 239 l           |                    |
| EN 14511-4   Heating                       |                 |                    |
| Shutting off the heat transfer medium flow | passed          |                    |
| Complete power supply failure              | passed          |                    |
| Defrost test                               | passed          |                    |
| Starting and operating test                | passed          |                    |
| EN 14511-2   Heating                       |                 |                    |
|                                            | Low temperature | Medium temperature |
| Heat output                                | 5.18 kW         |                    |
| El input                                   | 1.78 kW         |                    |
| COP                                        | 2.91            |                    |
| EN 12102-1   Average Climate               |                 |                    |

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A)        |                    |

#### EN 14825 | Average Climate

|                                                     | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 140 %           |                    |
| Prated                                              | 6.41 kW         |                    |
| SCOP                                                | 3.69            |                    |
| Tbiv                                                | -6 °C           |                    |
| TOL                                                 | -10 °C          |                    |
| Pdh Tj = -7°C                                       | 5.30 kW         |                    |
| COP Tj = -7°C                                       | 3.18            |                    |
| Cdh Tj = -7 °C                                      |                 |                    |
| Pdh Tj = +2°C                                       | 5.60 kW         |                    |
| COP Tj = +2°C                                       | 3.80            |                    |
| Cdh Tj = +2 °C                                      |                 |                    |
| Pdh Tj = +7°C                                       | 5.70 kW         |                    |
| COP Tj = +7°C                                       | 4.19            |                    |
| Cdh Tj = +7 °C                                      |                 |                    |
| Pdh Tj = 12°C                                       | 5.80 kW         |                    |
| COP Tj = 12°C                                       | 4.62            |                    |
| Cdh Tj = +12 °C                                     |                 |                    |
| Pdh Tj = Tbiv                                       | 5.37 kW         |                    |
| COP Tj = Tbiv                                       | 3.30            |                    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW         |                    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.91            |                    |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990           |                    |
| WTOL                                                | 65 °C           |                    |
| Poff                                                | 18 W            |                    |
| PTO                                                 | 106 W           |                    |
| PSB                                                 | 18 W            |                    |
| PCK                                                 | 0 W             |                    |
| Supplementary Heater: Type of energy input          | Electricity     |                    |
| Supplementary Heater: PSUP                          | 1.23 kW         |                    |
| Annual energy consumption Qhe                       | 1685 kWh        |                    |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A)        |                    |

#### EN 14825 | Colder Climate

|  | Low temperature | Medium temperature |
|--|-----------------|--------------------|
|--|-----------------|--------------------|

|                                                     |             |
|-----------------------------------------------------|-------------|
| $\eta_s$                                            | 143 %       |
| Prated                                              | 6.03 kW     |
| SCOP                                                | 3.78        |
| Tbiv                                                | -18 °C      |
| TOL                                                 | -22 °C      |
| Pdh Tj = -7°C                                       | 5.50 kW     |
| COP Tj = -7°C                                       | 3.65        |
| Pdh Tj = +2°C                                       | 5.70 kW     |
| COP Tj = +2°C                                       | 4.12        |
| Pdh Tj = +7°C                                       | 5.80 kW     |
| COP Tj = +7°C                                       | 4.47        |
| Pdh Tj = 12°C                                       | 5.90 kW     |
| COP Tj = 12°C                                       | 4.75        |
| Pdh Tj = Tbiv                                       | 5.30 kW     |
| COP Tj = Tbiv                                       | 3.18        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.91        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99        |
| WTOL                                                | 65 °C       |
| Poff                                                | 18 W        |
| PTO                                                 | 3 W         |
| PSB                                                 | 18 W        |
| PCK                                                 | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 0.90 kW     |
| Annual energy consumption Qhe                       | 1685 kWh    |

## Model CTC GS 606 1x230V

|                                     |                   |
|-------------------------------------|-------------------|
| Model name                          | CTC GS 606 1x230V |
| Application                         | Heating + DHW     |
| 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 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 100 %      |
| COP                             | 2.50       |
| Heating up time                 | 2:14 h:min |
| Standby power input             | 57.0 W     |
| Reference hot water temperature | 49.7 °C    |
| Mixed water at 40°C             | 239 l      |

### EN 16147 | Colder Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 100 %      |
| COP                             | 2.50       |
| Heating up time                 | 2:14 h:min |
| Standby power input             | 57.0 W     |
| Reference hot water temperature | 49.7 °C    |
| Mixed water at 40°C             | 239 l      |

### EN 14511-4 | Heating

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

### EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 5.18 kW         |                    |
| El input    | 1.78 kW         |                    |
| COP         | 2.91            |                    |

### EN 12102-1 | Average Climate

|                                                     | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| Sound power level indoor                            | 41 dB(A)        |                    |
| EN 14825   Average Climate                          |                 |                    |
|                                                     | Low temperature | Medium temperature |
| $\eta_s$                                            | 140 %           |                    |
| Prated                                              | 6.41 kW         |                    |
| SCOP                                                | 3.69            |                    |
| Tbiv                                                | -6 °C           |                    |
| TOL                                                 | -10 °C          |                    |
| Pdh Tj = -7°C                                       | 5.30 kW         |                    |
| COP Tj = -7°C                                       | 3.18            |                    |
| Cdh Tj = -7 °C                                      |                 |                    |
| Pdh Tj = +2°C                                       | 5.60 kW         |                    |
| COP Tj = +2°C                                       | 3.80            |                    |
| Cdh Tj = +2 °C                                      |                 |                    |
| Pdh Tj = +7°C                                       | 5.70 kW         |                    |
| COP Tj = +7°C                                       | 4.19            |                    |
| Cdh Tj = +7 °C                                      |                 |                    |
| Pdh Tj = 12°C                                       | 5.80 kW         |                    |
| COP Tj = 12°C                                       | 4.62            |                    |
| Cdh Tj = +12 °C                                     |                 |                    |
| Pdh Tj = Tbiv                                       | 5.37 kW         |                    |
| COP Tj = Tbiv                                       | 3.30            |                    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW         |                    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.91            |                    |
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| WTOL                                                | 65 °C           |                    |
| Poff                                                | 18 W            |                    |
| PTO                                                 | 106 W           |                    |
| PSB                                                 | 18 W            |                    |
| PCK                                                 | 0 W             |                    |
| Supplementary Heater: Type of energy input          | Electricity     |                    |
| Supplementary Heater: PSUP                          | 1.23 kW         |                    |
| Annual energy consumption Qhe                       | 1685 kWh        |                    |

| EN 12102-1   Colder Climate |                 |                    |
|-----------------------------|-----------------|--------------------|
|                             | Low temperature | Medium temperature |
| Sound power level indoor    | 41 dB(A)        |                    |
| EN 14825   Colder Climate   |                 |                    |
|                             | Low temperature | Medium temperature |

|                                                     |             |
|-----------------------------------------------------|-------------|
| $\eta_s$                                            | 143 %       |
| Prated                                              | 6.03 kW     |
| SCOP                                                | 3.78        |
| Tbiv                                                | -18 °C      |
| TOL                                                 | -22 °C      |
| Pdh Tj = -7°C                                       | 5.50 kW     |
| COP Tj = -7°C                                       | 3.65        |
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| COP Tj = +2°C                                       | 4.12        |
| Pdh Tj = +7°C                                       | 5.80 kW     |
| COP Tj = +7°C                                       | 4.47        |
| Pdh Tj = 12°C                                       | 5.90 kW     |
| COP Tj = 12°C                                       | 4.75        |
| Pdh Tj = Tbiv                                       | 5.30 kW     |
| COP Tj = Tbiv                                       | 3.18        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW     |
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| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99        |
| WTOL                                                | 65 °C       |
| Poff                                                | 18 W        |
| PTO                                                 | 3 W         |
| PSB                                                 | 18 W        |
| PCK                                                 | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 0.90 kW     |
| Annual energy consumption Qhe                       | 1685 kWh    |