

## Subtype CTC CombiAir 6MR

|                     |  |
|---------------------|--|
| Certificate Holder  | CTC AB                                       |
| Address             | Box 309, Näsvägen                            |
| ZIP                 | SE-341 26                                    |
| City                | Ljungby                                      |
| Country             | SE   |
| Certification Body  | RISE CERT                                    |
| Subtype title       | CTC CombiAir 6MR                             |
| Registration number | 012-C700184                                  |
| Heat Pump Type      | Outdoor Air/Water                            |
| Refrigerant         | R32  |
| Mass of Refrigerant | 1.3 kg                                       |
| Certification Date  | 30.05.2023                                   |
| Testing basis       | EN 14511:2018, EN 14825:2018, EN 12102:2017. |
| Testing laboratory  | RISE Research Institutes of Sweden           |

## Model CTC CombiAir 6MR

|                                     |                       |
|-------------------------------------|-----------------------|
| Model name                          | CTC CombiAir 6MR      |
| Application                         | Heating (medium temp) |
| Units                               | Outdoor               |
| Climate zone (for heating)          | n/a                   |
| Reversibility                       | Yes                   |
| Cooling mode application (optional) | n/a                   |
| Any additional heat sources         | n/a                   |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### 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 | 5.08 kW         | 4.16 kW            |
| El input    | 0.98 kW         | 1.36 kW            |
| COP         | 5.17            | 3.06               |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 53 dB(A)        | 53 dB(A)           |

### EN 14825 | Average Climate

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 200 %           | 139 %              |
| Prated         | 5.20 kW         | 5.60 kW            |
| SCOP           | 5.08            | 3.56               |
| Tbiv           | -10 °C          | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 4.54 kW         | 5.04 kW            |
| COP Tj = -7°C  | 3.04            | 1.95               |
| Cdh Tj = -7 °C | 0.990           | 1.000              |
| Pdh Tj = +2°C  | 2.70 kW         | 2.89 kW            |
| COP Tj = +2°C  | 5.00            | 3.51               |
| Cdh Tj = +2 °C | 0.980           | 0.990              |
| Pdh Tj = +7°C  | 1.78 kW         | 1.89 kW            |

|   |          |          |
|---|----------|----------|
| COP Tj = +7°C                                       | 6.67     | 4.99     |
| Cdh Tj = +7 °C                                      | 0.960    | 0.970    |
| Pdh Tj = 12°C                                       | 1.83 kW  | 1.74 kW  |
| COP Tj = 12°C                                       | 8.54     | 6.33     |
| Cdh Tj = +12 °C                                     | 0.950    | 0.960    |
| Pdh Tj = Tbiv                                       | 5.23 kW  | 5.04 kW  |
| COP Tj = Tbiv                                       | 2.61     | 1.95     |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.23 kW  | 4.56 kW  |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.61     | 1.75     |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000    | 1.000    |
| WTOL  | 58 °C    | 58 °C    |
| Poff  | 7 W      | 7 W      |
| PTO   | 11 W     | 11 W     |
| PSB   | 11 W     | 11 W     |
| PCK   | 0 W      | 0 W      |
| Supplementary Heater: Type of energy input          | n/a      | n/a      |
| Supplementary Heater: PSUP                          | 0.00 kW  | 1.00 kW  |
| Annual energy consumption Qhe                       | 2116 kWh | 3250 kWh |