

Subtype THERCON THERMA TCD03X

|                     |  |
|---------------------|--|
| Certificate Holder  | Groupe Atlantic  |
| Address             | Rue des Fondeurs BP 64                                     |
| ZIP                 | 59660  |
| City                | Merville   |
| Country             | FR   |
| Certification Body  | RISE CERT  |
| Subtype title       | THERCON THERMA TCD03X                                      |
| Registration number | 012-C700125  |
| Heat Pump Type      | Outdoor Air/Water  |
| Refrigerant         | R32  |
| Mass of Refrigerant | 0.97 kg  |
| Certification Date  | 10.07.2024   |
| Testing basis       | EN 14511:2018, EN 14825:2018, EN 12102:2017, EN 16147:2017 |
| Testing laboratory  | CETIAT, FR   |

**Model THERCON THERMA TCD03X**

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | THERCON THERMA TCD03X    |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor, Outdoor          |
| Climate zone (for heating)          | n/a                      |
| 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 16147 | Average Climate**

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 132 %      |
| COP                             | 3.30       |
| Heating up time                 | 1:45 h:min |
| Standby power input             | 31.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 245 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 | 3.30 kW         | 3.10 kW            |
| El input    | 0.65 kW         | 1.22 kW            |
| COP         | 5.07            | 2.55               |

**EN 12102-1 | Average Climate**

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 57 dB(A)        | 57 dB(A)           |

**EN 14825 | Average Climate**

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 181 %           | 126 %              |
| Prated   | 4.40 kW         | 4.20 kW            |

|   |             |             |
|---|-------------|-------------|
| SCOP  | 4.60        | 3.22        |
| Tbiv  | -7 °C       | -7 °C       |
| TOL   | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 3.90 kW     | 3.70 kW     |
| COP Tj = -7°C                                       | 3.09        | 1.96        |
| Cdh Tj = -7 °C                                      | 0.990       | 1.000       |
| Pdh Tj = +2°C                                       | 2.40 kW     | 2.30 kW     |
| COP Tj = +2°C                                       | 4.43        | 3.09        |
| Cdh Tj = +2 °C                                      | 0.980       | 0.990       |
| Pdh Tj = +7°C                                       | 2.10 kW     | 2.20 kW     |
| COP Tj = +7°C                                       | 6.07        | 4.48        |
| Cdh Tj = +7 °C                                      | 0.970       | 0.980       |
| Pdh Tj = 12°C                                       | 2.40 kW     | 2.30 kW     |
| COP Tj = 12°C                                       | 7.85        | 6.19        |
| Cdh Tj = +12 °C                                     | 0.970       | 0.980       |
| Pdh Tj = Tbiv                                       | 3.90 kW     | 3.70 kW     |
| COP Tj = Tbiv                                       | 3.09        | 1.96        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.90 kW     | 3.30 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76        | 1.63        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990       | 1.000       |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 4 W         | 4 W         |
| PTO   | 9 W         | 9 W         |
| PSB   | 8 W         | 8 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.50 kW     | 0.90 kW     |
| Annual energy consumption Qhe                       | 1977 kWh    | 2694 kWh    |