

## Subtype THERMOR Aérolia Tri 16

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| Certificate Holder  | Groupe Atlantic                                            |
| Address             | 44 boulevard des Etats-Unis                                |
| ZIP                 | 85000                                                      |
| City                | La Roche Sur Yon                                           |
| Country             | FR                                                         |
| Certification Body  | RISE CERT                                                  |
| Subtype title       | THERMOR Aérolia Tri 16                                     |
| Registration number | 012-C700161                                                |
| Heat Pump Type      | Outdoor Air/Water                                          |
| Refrigerant         | R410A                                                      |
| Mass of Refrigerant | 2.5 kg                                                     |
| Certification Date  | 09.12.2022                                                 |
| Testing basis       | EN 14511:2013, EN 16147:2011, EN 14825:2013, EN 12102:2013 |

## Model THERMOR Aérolia Tri 16

|                                     |                        |
|-------------------------------------|------------------------|
| Model name                          | THERMOR Aérolia Tri 16 |
| Application                         | Heating (medium temp)  |
| Units                               | Indoor, Outdoor        |
| Climate zone (for heating)          | n/a                    |
| Cooling mode application (optional) | n/a                    |
| Any additional heat sources         | n/a                    |
| Phase-out Date                      | 16.04.2026             |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x400V 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 | 15.17 kW        | 12.24 kW           |
| El input    | 3.70 kW         | 4.93 kW            |
| COP         | 4.10            | 2.48               |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 46 dB(A)        | 46 dB(A)           |
| Sound power level outdoor | 69 dB(A)        | 69 dB(A)           |

### EN 14825 | Average Climate

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 149 %           | 117 %              |
| Prated         | 13.60 kW        | 13.00 kW           |
| SCOP           | 3.80            | 3.00               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 12.00 kW        | 11.50 kW           |
| COP Tj = -7°C  | 2.40            | 1.80               |
| Cdh Tj = -7 °C | 0.900           | 0.900              |
| Pdh Tj = +2°C  | 7.30 kW         | 7.00 kW            |
| COP Tj = +2°C  | 3.60            | 2.90               |
| Cdh Tj = +2 °C | 0.900           | 0.900              |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = +7°C                                       | 6.30 kW     | 5.80 kW     |
| COP Tj = +7°C                                       | 5.50        | 4.10        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = 12°C                                       | 7.40 kW     | 7.10 kW     |
| COP Tj = 12°C                                       | 7.20        | 5.50        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 12.00 kW    | 11.50 kW    |
| COP Tj = Tbiv                                       | 2.40        | 1.80        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.60 kW    | 10.30 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30        | 1.60        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 88 W        | 32 W        |
| PSB                                                 | 17 W        | 17 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.00 kW     | 2.70 kW     |
| Annual energy consumption Qhe                       | 7408 kWh    | 9062 kWh    |

## Model THERMOR Aérolia Duo Tri 16

|                                     |                            |
|-------------------------------------|----------------------------|
| Model name                          | THERMOR Aérolia Duo Tri 16 |
| 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                        |
| Phase-out Date                      | 16.04.2026                 |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x400V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 88 %       |
| COP                             | 2.30       |
| Heating up time                 | 0:46 h:min |
| Standby power input             | 40.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 250 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 | 15.17 kW        | 12.24 kW           |
| El input    | 3.70 kW         | 4.93 kW            |
| COP         | 4.10            | 2.48               |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 46 dB(A)        | 46 dB(A)           |
| Sound power level outdoor | 69 dB(A)        | 69 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 149 %           | 117 %              |
| Prated   | 13.60 kW        | 13.00 kW           |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| SCOP                                                | 3.80        | 3.00        |
| Tbiv                                                | -7 °C       | -7 °C       |
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 12.00 kW    | 11.50 kW    |
| COP Tj = -7°C                                       | 2.40        | 1.80        |
| Cdh Tj = -7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = +2°C                                       | 7.30 kW     | 7.00 kW     |
| COP Tj = +2°C                                       | 3.60        | 2.90        |
| Cdh Tj = +2 °C                                      | 0.900       | 0.900       |
| Pdh Tj = +7°C                                       | 6.30 kW     | 5.80 kW     |
| COP Tj = +7°C                                       | 5.50        | 4.10        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = 12°C                                       | 7.40 kW     | 7.10 kW     |
| COP Tj = 12°C                                       | 7.20        | 5.50        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 12.00 kW    | 11.50 kW    |
| COP Tj = Tbiv                                       | 2.40        | 1.80        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.60 kW    | 10.30 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30        | 1.60        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 88 W        | 32 W        |
| PSB                                                 | 17 W        | 17 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.00 kW     | 2.70 kW     |
| Annual energy consumption Qhe                       | 7408 kWh    | 9062 kWh    |