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|                     |                                    |          |               |
|---------------------|------------------------------------|----------|---------------|
| Summary of          | THERMOR Alféa Extensa A.I. size 10 | Reg. No. | 012-SC0225-19 |
| Certificate Holder  |                                    |          |               |
| Name                | Groupe Atlantic                    |          |               |
| Address             | 44 boulevard des Etats-Unis        | Zip      | 85000         |
| City                | La Roche Sur Yon                   | Country  | France        |
| Certification Body  | RISE CERT                          |          |               |
| Subtype title       | THERMOR Alféa Extensa A.I. size 10 |          |               |
| Heat Pump Type      | Outdoor Air/Water                  |          |               |
| Refrigerant         | R410A                              |          |               |
| Mass of Refrigerant | 1.8 kg                             |          |               |
| Certification Date  | 05.06.2019                         |          |               |

# Model: THERMOR Alféa Extensa Duo A.I. 10

| Configure model                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | THERMOR Alféa Extensa Duo A.I. 10 |
| Application                         | Heating + DHW + low temp          |
| Units                               | Indoor + Outdoor                  |
| Climate Zone                        | n/a                               |
| Reversibility                       | No                                |
| Cooling mode application (optional) | n/a                               |

| General Data   |             |
|----------------|-------------|
| Power supply   | 1x230V 50Hz |
| Phase-out Date | 12.03.2024  |

## Average Climate

| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | 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 |                 |                    |
|----------|-----------------|--------------------|
|          | Low temperature | Medium temperature |
| $\eta_s$ | 155 %           | 113 %              |
| Prated   | 8.00 kW         | 8.00 kW            |
| SCOP     | 3.95            | 2.90               |
| Tbiv     | -7 °C           | -7 °C              |
| TOL      | -10 °C          | -10 °C             |

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|   |             |             |
|---|-------------|-------------|
| Pdh Tj = -7°C                                       | 7.50 kW     | 6.70 kW     |
| COP Tj = -7°C                                       | 2.40        | 1.70        |
| Pdh Tj = +2°C                                       | 4.50 kW     | 4.10 kW     |
| COP Tj = +2°C                                       | 3.80        | 2.70        |
| Pdh Tj = +7°C                                       | 3.50 kW     | 3.20 kW     |
| COP Tj = +7°C                                       | 5.70        | 4.10        |
| Pdh Tj = 12°C                                       | 4.00 kW     | 4.00 kW     |
| COP Tj = 12°C                                       | 7.20        | 5.70        |
| Pdh Tj = Tbiv                                       | 7.50 kW     | 6.70 kW     |
| COP Tj = Tbiv                                       | 2.40        | 1.70        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW     | 5.90 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20        | 1.40        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90        | 0.90        |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 5 W         | 5 W         |
| PTO   | 43 W        | 22 W        |
| PSB   | 8 W         | 8 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.40 kW     | 1.70 kW     |
| Annual energy consumption Qhe                       | 4415 kWh    | 5415 kWh    |

## Heating

| <b>EN 14511-4</b>  |        |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |
| Defrost test   | passed |

| <b>EN 14511-2</b> |                        |                           |
|-------------------|------------------------|---------------------------|
|                   | <b>Low temperature</b> | <b>Medium temperature</b> |
| Heat output       | 10.00 kW               | 7.00 kW                   |
| El input          | 2.49 kW                | 2.86 kW                   |
| COP               | 4.02                   | 2.45                      |

## Domestic Hot Water (DHW)

## Average Climate

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| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 120 %      |
| COP                             | 3.00       |
| Heating up time                 | 1:45 h:min |
| Standby power input             | 32.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 249 l      |

# Model: THERMOR Alféa Extensa A.I. 10

| Configure model                     |                               |
|-------------------------------------|-------------------------------|
| Model name                          | THERMOR Alféa Extensa A.I. 10 |
| Application                         | Heating (medium temp)         |
| Units                               | Indoor + Outdoor              |
| Climate Zone                        | n/a                           |
| Reversibility                       | No                            |
| Cooling mode application (optional) | n/a                           |

| General Data   |             |
|----------------|-------------|
| Power supply   | 1x230V 50Hz |
| Phase-out Date | 12.03.2024  |

## Average Climate

| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | 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 |                 |                    |
|----------|-----------------|--------------------|
|          | Low temperature | Medium temperature |
| $\eta_s$ | 155 %           | 113 %              |
| Prated   | 8.00 kW         | 8.00 kW            |
| SCOP     | 3.95            | 2.90               |
| Tbiv     | -7 °C           | -7 °C              |
| TOL      | -10 °C          | -10 °C             |

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| COP Tj = -7°C                                       | 2.40        | 1.70        |
| Pdh Tj = +2°C                                       | 4.50 kW     | 4.10 kW     |
| COP Tj = +2°C                                       | 3.80        | 2.70        |
| Pdh Tj = +7°C                                       | 3.50 kW     | 3.20 kW     |
| COP Tj = +7°C                                       | 5.70        | 4.10        |
| Pdh Tj = 12°C                                       | 4.00 kW     | 4.00 kW     |
| COP Tj = 12°C                                       | 7.20        | 5.70        |
| Pdh Tj = Tbiv                                       | 7.50 kW     | 6.70 kW     |
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| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90        | 0.90        |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 5 W         | 5 W         |
| PTO   | 43 W        | 22 W        |
| PSB   | 8 W         | 8 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.40 kW     | 1.70 kW     |
| Annual energy consumption Qhe                       | 4415 kWh    | 5415 kWh    |

## Heating

| <b>EN 14511-4</b>  |        |
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|  |        |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |
| Defrost test   | passed |

| <b>EN 14511-2</b> |                        |                           |
|-------------------|------------------------|---------------------------|
|                   | <b>Low temperature</b> | <b>Medium temperature</b> |
| Heat output       | 10.00 kW               | 7.00 kW                   |
| El input          | 2.49 kW                | 2.86 kW                   |
| COP               | 4.02                   | 2.45                      |