

This information was generated by the HP KEYMARK database on 17 Dec 2020

|                            |                             |          |               |
|----------------------------|-----------------------------|----------|---------------|
| Summary of                 | THERMASTAGE Compact 08      | Reg. No. | 012-SC0373-19 |
| Certificate Holder         |                             |          |               |
| Name                       | Groupe Atlantic             |          |               |
| Address                    | 44 boulevard des Etats-Unis | Zip      | 85000         |
| City                       | La Roche Sur Yon            | Country  | France        |
| Certification Body         | RISE CERT                   |          |               |
| Name of testing laboratory | RISE                        |          |               |
| Subtype title              | THERMASTAGE Compact 08      |          |               |
| Heat Pump Type             | Outdoor Air/Water           |          |               |
| Refrigerant                | R410a                       |          |               |
| Mass Of Refrigerant        | 1.4 kg                      |          |               |
| Certification Date         | 30.09.2019                  |          |               |

## Model: THERMASTAGE Compact Duo 08

### General Data

|              |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-4

|  |        |
|--|--------|
| 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 |

### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 4.75 kW                | 5.21 kW                |
| El input               | 0.92 kW                | 0.87 kW                |
| COP                    | 5.14                   | 2.79                   |
| Indoor water flow rate | 0.84 m <sup>3</sup> /h | 0.57 m <sup>3</sup> /h |

## Average Climate

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### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 44 dB(A)        | 44 dB(A)           |
| Sound power level outdoor | 69 dB(A)        | 69 dB(A)           |

### EN 14825

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 176 %           | 129 %              |
| Prated        | 7.00 kW         | 7.00 kW            |
| SCOP          | 4.46            | 3.30               |
| Tbiv          | -7 °C           | -7 °C              |
| TOL           | -10 °C          | -10 °C             |
| Pdh Tj = -7°C | 6.02 kW         | 5.84 kW            |
| COP Tj = -7°C | 2.60            | 1.90               |
| Pdh Tj = +2°C | 3.66 kW         | 3.55 kW            |
| COP Tj = +2°C | 4.25            | 3.13               |
| Pdh Tj = +7°C | 2.35 kW         | 2.28 kW            |
| COP Tj = +7°C | 6.48            | 4.83               |
| Pdh Tj = 12°C | 2.29 kW         | 2.15 kW            |
| COP Tj = 12°C | 9.81            | 6.90               |
| Pdh Tj = Tbiv | 6.02 kW         | 5.84 kW            |

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|  |             |             |
|--|-------------|-------------|
| COP Tj = Tbiv                              | 2.60        | 1.90        |
| Pdh Tj = TOL                               | 5.55 kW     | 5.68 kW     |
| COP Tj = TOL                               | 2.39        | 1.56        |
| Cdh  | 0.90        | 0.90        |
| WTOL                                       | 55 °C       | 55 °C       |
| Poff                                       | 9 W         | 9 W         |
| PTO  | 15 W        | 15 W        |
| PSB  | 9 W         | 9 W         |
| PCK  | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP                 | 1.30 kW     | 0.90 kW     |
| Annual energy consumption Qhe              | 3147 kWh    | 4132 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

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| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 130 %      |
| COP                             | 3.26       |
| Heating up time                 | 1:36 h:min |
| Standby power input             | 31.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 243 l      |

# Model: THERMASTAGE Compact Combi 08

## General Data

|              |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-4

|  |        |
|--|--------|
| 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 |

### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 4.75 kW                | 5.21 kW                |
| El input               | 0.92 kW                | 1.87 kW                |
| COP                    | 5.14                   | 2.79                   |
| Indoor water flow rate | 0.84 m <sup>3</sup> /h | 0.57 m <sup>3</sup> /h |

## Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 44 dB(A)        | 44 dB(A)           |
| Sound power level outdoor | 69 dB(A)        | 69 dB(A)           |

### EN 14825

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 176 %           | 129 %              |
| Prated        | 7.00 kW         | 7.00 kW            |
| SCOP          | 4.46            | 3.30               |
| Tbiv          | -7 °C           | -7 °C              |
| TOL           | -10 °C          | -10 °C             |
| Pdh Tj = -7°C | 6.02 kW         | 5.84 kW            |
| COP Tj = -7°C | 2.60            | 1.90               |
| Pdh Tj = +2°C | 3.66 kW         | 3.55 kW            |
| COP Tj = +2°C | 4.25            | 3.13               |
| Pdh Tj = +7°C | 2.35 kW         | 2.28 kW            |
| COP Tj = +7°C | 6.48            | 4.83               |
| Pdh Tj = 12°C | 2.29 kW         | 2.15 kW            |
| COP Tj = 12°C | 9.81            | 6.90               |
| Pdh Tj = Tbiv | 6.02 kW         | 5.84 kW            |

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|  |             |             |
|--|-------------|-------------|
| COP $T_j = T_{biv}$                        | 2.60        | 1.90        |
| P <sub>dh</sub> $T_j = TOL$                | 5.55 kW     | 5.68 kW     |
| COP $T_j = TOL$                            | 2.39        | 1.56        |
| C <sub>dh</sub>                            | 0.90        | 0.90        |
| WTOL                                       | 55 °C       | 55 °C       |
| P <sub>off</sub>                           | 9 W         | 9 W         |
| PTO  | 15 W        | 15 W        |
| PSB  | 9 W         | 9 W         |
| PCK  | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP                 | 1.30 kW     | 0.90 kW     |
| Annual energy consumption Q <sub>he</sub>  | 3147 kWh    | 4132 kWh    |