

## Subtype ATLANTIC GEOLIA 13

|                     |                               |
|---------------------|-------------------------------|
| Certificate Holder  | Groupe Atlantic               |
| Address             | Rue des Fondateurs BP 64      |
| ZIP                 | 59660                         |
| City                | Merville                      |
| Country             | FR                            |
| Certification Body  | RISE CERT                     |
| Subtype title       | ATLANTIC GEOLIA 13            |
| Registration number | 012-C700082                   |
| Heat Pump Type      | Brine/Water and Water/Water   |
| Refrigerant         | R410A                         |
| Mass of Refrigerant | 1.7 kg                        |
| Certification Date  | 16.10.2020                    |
| Testing basis       | HP Keymark Scheme Rules rev 8 |

## Model ATLANTIC GEOLIA 13

|                                     |                       |
|-------------------------------------|-----------------------|
| Model name                          | ATLANTIC GEOLIA 13    |
| Application                         | Heating (medium temp) |
| Units                               | Indoor                |
| 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 | No          |

## Brine/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 | 12.63 kW        | 11.86 kW           |
| El input    | 2.91 kW         | 4.06 kW            |
| COP         | 4.35            | 2.92               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 55 dB(A)        | 55 dB(A)           |

### EN 14825 | Average Climate

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 177 %           | 140 %              |
| Prated         | 14.30 kW        | 13.50 kW           |
| SCOP           | 4.62            | 3.70               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 12.60 kW        | 11.90 kW           |
| COP Tj = -7°C  | 4.53            | 3.43               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 12.70 kW        | 12.20 kW           |
| COP Tj = +2°C  | 4.70            | 3.65               |
| Cdh Tj = +2 °C | 0.990           | 0.990              |
| Pdh Tj = +7°C  | 12.80 kW        | 12.40 kW           |
| COP Tj = +7°C  | 4.86            | 4.07               |

|   |             |             |
|---|-------------|-------------|
| Cdh Tj = +7 °C                                      | 0.990       | 0.990       |
| Pdh Tj = 12°C                                       | 12.90 kW    | 12.60 kW    |
| COP Tj = 12°C                                       | 5.02        | 4.47        |
| Cdh Tj = +12 °C                                     | 0.990       | 0.990       |
| Pdh Tj = Tbiv                                       | 12.60 kW    | 11.90 kW    |
| COP Tj = Tbiv                                       | 4.53        | 3.43        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.60 kW    | 11.90 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26        | 2.86        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh |             |             |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 90 W        | 90 W        |
| PSB   | 3 W         | 3 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.70 kW     | 1.60 kW     |
| Annual energy consumption Qhe                       | 6386 kWh    | 7546 kWh    |

#### Water/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 | 16.78 kW        | 15.59 kW           |
| El input    | 2.94 kW         | 4.68 kW            |
| COP         | 5.70            | 3.33               |

#### EN 14825 | Average Climate

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 210 %           | 164 %              |
| Prated         | 18.20 kW        | 15.70 kW           |
| SCOP           | 5.44            | 4.29               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 16.10 kW        | 13.90 kW           |
| COP Tj = -7°C  | 5.17            | 3.43               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = +2°C                                       | 16.30 kW    | 14.70 kW    |
| COP Tj = +2°C                                       | 5.50        | 4.35        |
| Cdh Tj = +2 °C                                      | 0.990       | 0.990       |
| Pdh Tj = +7°C                                       | 16.50 kW    | 15.20 kW    |
| COP Tj = +7°C                                       | 5.81        | 4.92        |
| Cdh Tj = +7 °C                                      | 0.990       | 0.990       |
| Pdh Tj = 12°C                                       | 16.70 kW    | 15.70 kW    |
| COP Tj = 12°C                                       | 6.14        | 5.51        |
| Cdh Tj = +12 °C                                     | 0.990       | 0.990       |
| Pdh Tj = Tbiv                                       | 16.10 kW    | 13.90 kW    |
| COP Tj = Tbiv                                       | 5.17        | 3.43        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 16.10 kW    | 13.60 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.11        | 3.11        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh |             |             |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 90 W        | 90 W        |
| PSB   | 3 W         | 3 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.10 kW     | 2.10 kW     |
| Annual energy consumption Qhe                       | 6912 kWh    | 7576 kWh    |