

## Subtype Grant Aerona3 HPID13R32

|                     |                                       |
|---------------------|---------------------------------------|
| Certificate Holder  | Grant Engineering (Ireland) ULC       |
| Address             | Barrack St                            |
| ZIP                 | R42 D788                              |
| City                | Ballinree, Birr                       |
| Country             | IE                                    |
| Certification Body  | BRE Global Limited                    |
| Subtype title       | Grant Aerona3 HPID13R32               |
| Registration number | 041-K005-03                           |
| Heat Pump Type      | Outdoor Air/Water                     |
| Refrigerant         | R32                                   |
| Mass of Refrigerant | 2.2 kg                                |
| Certification Date  | 01.03.2022                            |
| Testing basis       | Heat Pump Keymark Scheme Rules Rev 09 |

## Model HPID13R32

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | HPID13R32                |
| Application                         | Heating + DHW + low temp |
| Units                               | 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 $\eta_{DHW}$         | 113 %       |
| COP                             | 2.74        |
| Heating up time                 | 01:03 h:min |
| Standby power input             | 26.3 W      |
| Reference hot water temperature | 49.99 °C    |
| Mixed water at 40°C             | 287 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 | 13.6 kW         | 11.4 kW            |
| El input    | 2.59 kW         | 3.53 kW            |
| COP         | 5.25            | 3.23               |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 60.8 dB(A)      | 60.8 dB(A)         |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 215 %           | 160 %              |
| Prated   | 10.00 kW        | 10.00 kW           |
| SCOP     | 5.46            | 4.08               |
| Tbiv     | -8 °C           | -8 °C              |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 9.60 kW     | 9.68 kW     |
| COP Tj = -7°C                                       | 3.03        | 2.16        |
| Cdh Tj = -7 °C                                      | 0.990       | 0.990       |
| Pdh Tj = +2°C                                       | 6.09 kW     | 6.05 kW     |
| COP Tj = +2°C                                       | 6.20        | 3.92        |
| Cdh Tj = +2 °C                                      | 0.990       | 0.990       |
| Pdh Tj = +7°C                                       | 4.30 kW     | 4.14 kW     |
| COP Tj = +7°C                                       | 8.50        | 8.62        |
| Cdh Tj = +7 °C                                      | 0.990       | 0.990       |
| Pdh Tj = 12°C                                       | 4.10 kW     | 4.11 kW     |
| COP Tj = 12°C                                       | 10.30       | 8.62        |
| Cdh Tj = +12 °C                                     | 0.990       | 0.990       |
| Pdh Tj = Tbiv                                       | 9.14 kW     | 8.91 kW     |
| COP Tj = Tbiv                                       | 3.02        | 2.12        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.69 kW     | 7.36 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.98        | 2.04        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990       | 0.990       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 100 W       | 100 W       |
| PTO                                                 | 40 W        | 40 W        |
| PSB                                                 | 100 W       | 100 W       |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.31 kW     | 2.64 kW     |
| Annual energy consumption Qhe                       | 3787 kWh    | 5066 kWh    |