

Subtype Grant Aerona HPR290i120

| | |
|---------------------|---------------------------------------|
| 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 Aerona HPR290i120 |
| Registration number | 041-K005-08 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R290 |
| Mass of Refrigerant | 1.2 kg |
| Certification Date | 14.01.2025 |
| Testing basis | Heat Pump Keymark Scheme Rules Rev 15 |

Model Grant AERONA HPR290i120

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|-------------------------------------|--------------------------|
| Model name | Grant AERONA HPR290i120 |
| 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 η_{DHW} | 123.1 % |
| COP | 2.89 |
| Heating up time | 01:59 h:min |
| Standby power input | 46 W |
| Reference hot water temperature | 55.4 °C |
| Mixed water at 40°C | 331 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 | 12.18 kW | 12.21 kW |
| El input | 2.53 kW | 3.79 kW |
| COP | 4.81 | 3.22 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 49 dB(A) | 52 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 190 % | 150 % |
| Prated | 11.2 kW | 11.2 kW |
| SCOP | 4.82 | 3.81 |

| | | |
|---|-------------|-------------|
| Tbiv | -9 °C | -9 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.47 kW | 10.43 kW |
| COP Tj = -7°C | 3.12 | 2.32 |
| Cdh Tj = -7 °C | 0.9 | 0.9 |
| Pdh Tj = +2°C | 7.18 kW | 6.56 kW |
| COP Tj = +2°C | 4.58 | 3.76 |
| Cdh Tj = +2 °C | 0.9 | 0.9 |
| Pdh Tj = +7°C | 4.56 kW | 4.57 kW |
| COP Tj = +7°C | 6.66 | 5.06 |
| Cdh Tj = +7 °C | 0.9 | 0.9 |
| Pdh Tj = 12°C | 3.4 kW | 3.2 kW |
| COP Tj = 12°C | 9.01 | 6.83 |
| Cdh Tj = +12 °C | 0.9 | 0.9 |
| Pdh Tj = Tbiv | 11.12 kW | 10.81 kW |
| COP Tj = Tbiv | 3.01 | 2.23 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.86 kW | 10.58 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.89 | 2.15 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.9 | 0.9 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 27 W | 27 W |
| PSB | 7 W | 7 W |
| PCK | 21 W | 21 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.32 kW | 0.58 kW |
| Annual energy consumption Qhe | 4803 kWh | 6069 kWh |