Subtype Grant Aerona HPR290i40

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 HPR290i40
Registration number	041-K005-05
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.61 kg
Certification Date	14.01.2025
Testing basis	Heat Pump Keymark Scheme Rules Rev 15

Model Grant Aerona HPR290i40

Model name	Grant Aerona HPR290i40
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 ηDHW	132 %
COP	3.11
Heating up time	03:08 h:min
Standby power input	40 W
Reference hot water temperature	55 °C
Mixed water at 40°C	330 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	4.09 kW	4.36 kW
El input	0.82 kW	1.36 kW
COP	4.99	3.19

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	32 dB(A)	33 dB(A)
Sound power level outdoor	47 dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	4.09 kW	4.36 kW
ηs	200 %	146 %

Prated	4.09 kW	4.36 kW
SCOP	5.08	3.74
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.78 kW	3.93 kW
COP Tj = -7°C	3.57	2.48
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	2.4 kW	2.34 kW
COP Tj = +2°C	5.19	3.73
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	1.7 kW	1.92 kW
COP Tj = +7°C	6.47	4.69
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	1.35 kW	1.25 kW
COP Tj = 12°C	6.23	6.06
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	3.98 kW	3.93 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.77 kW	3.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.21
Rated airflow rate	2300 m³/h	2300 m³/h
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	21 W	21 W
PSB	7 W	7 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.3 kW	0.52 kW
Annual energy consumption Qhe	1664 kWh	2411 kWh