Subtype Grant Aerona HPR29012

Certificate Holder	Grant Engineering (UK) Ltd
Address	Frankland Road Blagrove
ZIP	SN5 8YG
City	Swindon
Country	GB
Certification Body	BRE Global Limited
Subtype title	Grant Aerona HPR29012
Registration number	041-K006-08
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 HPR29012

Model name	Grant Aerona HPR29012
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	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
ηs	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