

## Subtype Grant Aerona3 HPID10R32

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 Aerona3 HPID10R32
Registration number	041-K006-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.55 kg
Certification Date	01.03.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	BRE Limited, UK

## Model HPID10R32

Model name	HPID10R32
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 $\eta_{DHW}$	100 %
COP	2.40
Heating up time	1:26 h:min
Standby power input	31.3 W
Reference hot water temperature	51.6 °C
Mixed water at 40°C	305 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	11.1 kW	10.5 kW
El input	2.1 kW	3.358 kW
COP	5.28	3.12

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	64.1 dB(A)	64.1 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	207 %	138 %
Prated	9.20 kW	8.70 kW
SCOP	5.24	3.53

Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.03 kW	8.16 kW
COP Tj = -7°C	3.30	2.29
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.29 kW	5.07 kW
COP Tj = +2°C	5.96	3.53
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.40 kW	3.40 kW
COP Tj = +7°C	7.80	5.41
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.70 kW	3.95 kW
COP Tj = 12°C	9.20	8.45
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.49 kW	8.03 kW
COP Tj = Tbiv	3.11	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	5.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	1.85
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	3.30 kW	2.93 kW
Annual energy consumption Qhe	3628 kWh	5085 kWh