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Summary of	Grant Aeron3 HPID10R32	Reg. No.	041-K006-02
Certificate Holder			
Name	Grant Engineering (UK) Ltd		
Address	Hopton Industrial Estate, Hopton House	Zip	SN10 2EU
City	Devizes	Country	United Kingdom
Certification Body	BRE Global Limited		
Subtype title	Grant Aeron3 HPID10R32		
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		

## Model: HPID10R32

### Configure model

Model name	HPID10R32
Application	Heating + DHW + low temp
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

### General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	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 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Average Climate

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### EN 12102-1

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

### EN 14825

	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

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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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
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