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Summary of	Grant Aerona3 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 Aerona3 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

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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

Average Climate

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
η_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

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	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