Subtype Grant Aerona3 HPID13R32

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 HPID13R32
Registration number	041-K006-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.2 kg
Certification Date	01.03.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	BRE Limited, UK

Model HPID13R32

Model name	HPID13R32
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	113 %
COP	2.74
Heating up time	01:03 h:min
Standby power input	26.3 W
Reference hot water temperature	49.99 °C
Mixed water at 40°C	287 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	13.6 kW	11.4 kW
El input	2.59 kW	3.53 kW
COP	5.25	3.23

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	60.8 dB(A)	60.8 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	215 %	160 %
Prated	10.00 kW	10.00 kW
SCOP	5.46	4.08

Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	9.68 kW
COP Tj = -7°C	3.03	2.16
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.09 kW	6.05 kW
COP Tj = +2°C	6.20	3.92
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.30 kW	4.14 kW
COP Tj = +7°C	8.50	8.62
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.10 kW	4.11 kW
COP Tj = 12°C	10.30	8.62
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.14 kW	8.91 kW
COP Tj = Tbiv	3.02	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.69 kW	7.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.98	2.04
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	2.31 kW	2.64 kW
Annual energy consumption Qhe	3787 kWh	5066 kWh