Subtype DC Inverter Heat Pump 140

Certificate Holder	GZ AXEN Heat Pump Technology Co., Ltd.
Address	No.22, Lianyun Erheng Road, Shiqi Village, Shiqi Town, Panyu District
ZIP	511450
City	Guangzhou
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Heat Pump 140
Registration number	041-K030-08
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.1 kg
Certification Date	10.01.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model KS-140W/EN8BP	
Model name	KS-140W/EN8BP
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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 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	14.34 kW	14.13 kW
El input	3.05 kW	4.69 kW
COP	4.71	3.01

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	65 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	177 %	125 %
Prated	13.54 kW	13.34 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.98 kW	11.80 kW
COP Tj = -7°C	2.56	2.05
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.30 kW	7.53 kW
COP Tj = +2°C	4.54	3.08
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.19 kW	4.73 kW

COP Tj = +7°C	5.77	4.10
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.30 kW	5.53 kW
COP Tj = 12°C	7.86	5.93
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.98 kW	11.80 kW
COP Tj = Tbiv	2.56	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.06 kW	11.85 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.38	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	20 W	20 W
PSB	7 W	7 W
PCK	28 W	28 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.48 kW	1.49 kW
Annual energy consumption Qhe	6220 kWh	8584 kWh