

## Subtype DC Inverter Heat Pump 40/60

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 40/60
Registration number	041-K030-06
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.03 kg
Certification Date	10.01.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11

Model KS-40W/EN8BP		
Model name	KS-40W/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	4.04 kW	4.19 kW
El input	0.82 kW	1.50 kW
COP	4.92	2.79
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	59 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
ηs	180 %	128 %
Prated	3.87 kW	4.91 kW
SCOP	4.58	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.42 kW	4.34 kW
COP Tj = -7°C	3.01	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.37 kW	2.68 kW
COP Tj = +2°C	4.55	3.30
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.16 kW	1.86 kW

COP Tj = +7°C	5.46	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.17 kW	2.25 kW
COP Tj = 12°C	7.70	5.70
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	3.42 kW	4.34 kW
COP Tj = Tbiv	3.01	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.02 kW	4.28 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.81
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	18 W	18 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.67 kW
Annual energy consumption Qhe	1745 kWh	3090 kWh

**Model KS-60W/EN8BP**

Model name	KS-60W/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	6.10 kW	6.15 kW
El input	1.25 kW	2.19 kW
COP	4.88	2.81

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	60 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	176 %	127 %
Prated	5.81 kW	5.68 kW
SCOP	4.48	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.14 kW	5.03 kW
COP Tj = -7°C	3.05	2.11
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.49 kW	3.15 kW
COP Tj = +2°C	4.27	3.26
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.34 kW	2.15 kW

COP Tj = +7°C	5.60	3.87
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.17 kW	2.24 kW
COP Tj = 12°C	7.98	5.56
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	5.14 kW	5.03 kW
COP Tj = Tbiv	3.05	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.53 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	66 °C	66 °C
Poff	7 W	7 W
PTO	18 W	18 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.28 kW	1.28 kW
Annual energy consumption Qhe	2677 kWh	3605 kWh