

Subtype Split Heat pump-R32 KFS-40*, KFS-60*

Certificate Holder	GZ AXEN Heat Pump Technology Co., Ltd.
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City	Guangzhou
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Split Heat pump-R32 KFS-40*, KFS-60*
Registration number	011-1W0942
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	09.01.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model Indoor unit: KFS-40B/EN8BP and outdoor unit : KFS-40W/N8BP

Model name	Indoor unit: KFS-40B/EN8BP and outdoor unit : KFS-40W/N8BP
Application	Heating (medium temp)
Units	Indoor, 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	4.20 kW	4.00 kW
EI input	0.86 kW	1.53 kW
COP	4.89	2.62

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	184 %	128 %
Prated	4.00 kW	4.60 kW
SCOP	4.64	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	4.07 kW
COP Tj = -7°C	3.17	2.12
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	2.65 kW	2.51 kW
COP Tj = +2°C	4.78	2.99

Cdh Tj = +2 °C	0.960	0.980
Pdh Tj = +7°C	2.69 kW	2.42 kW
COP Tj = +7°C	5.91	4.61
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	2.60 kW	2.52 kW
COP Tj = 12°C	8.29	6.38
Cdh Tj = +12 °C	0.920	0.940
Pdh Tj = Tbiv	3.54 kW	4.07 kW
COP Tj = Tbiv	3.17	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.24 kW	3.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.990
WTOL	60 °C	60 °C
Poff	7 W	7 W
PTO	20 W	20 W
PSB	7 W	7 W
PCK	21 W	21 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.76 kW	0.79 kW
Annual energy consumption Qhe	1776 kWh	2838 kWh

Model Indoor unit: KFS-60B/EN8BP and outdoor unit: KFS-60W/N8BP

Model name	Indoor unit: KFS-60B/EN8BP and outdoor unit: KFS-60W/N8BP
Application	Heating (medium temp)
Units	Indoor, 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	6.00 kW	6.20 kW
EI input	1.23 kW	2.18 kW
COP	4.89	2.84

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	182 %	130 %
Prated	5.90 kW	5.60 kW
SCOP	4.61	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.21 kW	4.96 kW
COP Tj = -7°C	2.99	2.04
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.31 kW	3.09 kW
COP Tj = +2°C	4.54	3.32

Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	2.81 kW	2.35 kW
COP Tj = +7°C	6.03	4.35
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	2.58 kW	2.74 kW
COP Tj = 12°C	8.41	6.18
Cdh Tj = +12 °C	0.920	0.940
Pdh Tj = Tbiv	5.21 kW	4.96 kW
COP Tj = Tbiv	2.99	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.86 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	7 W	7 W
PTO	20 W	20 W
PSB	7 W	7 W
PCK	21 W	21 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	1.31 kW
Annual energy consumption Qhe	2634 kWh	3482 kWh