

Subtype Split Heat Pump-R32 KFS-140*, KFS-160*

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-140*, KFS-160*
Registration number	011-1W0941
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	09.01.2025
Testing basis	HP KEYMARK certification scheme rules V14

Model Indoor unit: KFS-140B/EN8SBP and outdoor unit: KFS-140W/N8SBP

Model name	Indoor unit: KFS-140B/EN8SBP and outdoor unit: KFS-140W/N8SBP
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	3x400V 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	14.30 kW	14.10 kW
El input	3.10 kW	4.52 kW
COP	4.61	3.12

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	63 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	136 %
Prated	13.20 kW	13.00 kW
SCOP	4.61	3.49
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.64 kW	11.47 kW
COP Tj = -7°C	2.83	2.06
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.97 kW	6.93 kW
COP Tj = +2°C	4.40	3.38

Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.23 kW	5.19 kW
COP Tj = +7°C	6.59	4.66
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	7.22 kW	6.66 kW
COP Tj = 12°C	9.52	7.51
Cdh Tj = +12 °C	1.000	0.990
Pdh Tj = Tbiv	11.64 kW	11.47 kW
COP Tj = Tbiv	2.83	2.06
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.27 kW	10.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.39	1.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	15 W	15 W
PSB	13 W	13 W
PCK	29 W	29 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.92 kW	2.86 kW
Annual energy consumption Qhe	5900 kWh	7687 kWh

Model Indoor unit: KFS-160B/EN8SBP and outdoor unit: KFS-160W/N8SBP

Model name	Indoor unit: KFS-160B/EN8SBP and outdoor unit: KFS-160W/N8SBP
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	3x400V 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	16.20 kW	16.20 kW
El input	3.67 kW	5.59 kW
COP	4.41	2.90

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	67 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	184 %	136 %
Prated	14.40 kW	13.00 kW
SCOP	4.63	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.71 kW	11.52 kW
COP Tj = -7°C	2.71	2.13
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.79 kW	7.44 kW
COP Tj = +2°C	4.36	3.25

Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.14 kW	5.46 kW
COP Tj = +7°C	6.63	4.88
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	6.68 kW	6.25 kW
COP Tj = 12°C	9.69	7.23
Cdh Tj = +12 °C	1.000	0.990
Pdh Tj = Tbiv	12.71 kW	11.52 kW
COP Tj = Tbiv	2.71	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.04 kW	8.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	15 W	15 W
PSB	13 W	13 W
PCK	29 W	29 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.32 kW	4.22 kW
Annual energy consumption Qhe	5900 kWh	7863 kWh