

## Subtype Heat pump-R290 KS-90\*

Certificate Holder	GZ AXEN Heat Pump Technology Co., Ltd.
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ZIP	511450
City	Guangzhou
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Heat pump-R290 KS-90*
Registration number	011-1W0799
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1 kg
Certification Date	13.06.2024
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 14 (as of 2024-04)

## Model KS-90W/EN7BP

Model name	KS-90W/EN7BP
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	9.10 kW	9.20 kW
El input	1.86 kW	2.97 kW
COP	4.90	3.10

### EN 12102-1 | Average Climate

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

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	186 %	151 %
Prated	9.10 kW	8.50 kW
SCOP	4.72	3.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.12 kW	7.74 kW
COP Tj = -7°C	2.75	2.33
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.01 kW	5.20 kW
COP Tj = +2°C	4.61	3.84
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.25 kW	3.20 kW

COP Tj = +7°C	6.44	4.87
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.71 kW	2.54 kW
COP Tj = 12°C	8.87	6.59
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.12 kW	7.74 kW
COP Tj = Tbiv	2.75	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	7.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.89	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	75 °C	75 °C
Poff	7 W	7 W
PTO	27 W	27 W
PSB	7 W	7 W
PCK	28 W	28 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.71 kW	1.03 kW
Annual energy consumption Qhe	4020 kWh	4576 kWh