

## Subtype Monobloc Heat Pump R290 6 8 kW

Certificate Holder	Zhejiang Zhongguang Electrical Co., Ltd.
Address	No. 96 Yunjing Road Shuige Industry Area, Lishui
ZIP	323000
City	Zhejiang
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Monobloc Heat Pump R290 6 8 kW
Registration number	011-1W0782
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	29.04.2024
Testing basis	HP KEYMARK certification scheme rules V14

## Model AHb06VR9HP

Model name	AHb06VR9HP
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	5.00 kW	5.00 kW
El input	0.99 kW	1.54 kW
COP	5.05	3.25

## EN 12102-1 | Average Climate

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

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	192 %	149 %
Prated	6.08 kW	6.10 kW
SCOP	4.88	3.81
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.38 kW	5.39 kW
COP Tj = -7°C	3.04	2.19
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.08 kW	3.27 kW
COP Tj = +2°C	4.76	3.75
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.49 kW	2.68 kW

COP Tj = +7°C	6.55	5.25
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.84 kW	2.64 kW
COP Tj = 12°C	9.89	7.14
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	5.38 kW	5.39 kW
COP Tj = Tbiv	3.04	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	75 °C	75 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	38 W	38 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.01 kW	1.00 kW
Annual energy consumption Qhe	2574 kWh	3307 kWh

## Model AHb08VR9HP

Model name	AHb08VR9HP
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	7.00 kW	7.00 kW
El input	1.40 kW	2.22 kW
COP	5.00	3.15

## EN 12102-1 | Average Climate

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

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	196 %	149 %
Prated	7.22 kW	6.94 kW
SCOP	4.98	3.79
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.39 kW	6.14 kW
COP Tj = -7°C	3.01	2.18
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.21 kW	3.84 kW
COP Tj = +2°C	4.75	3.72
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.57 kW	2.69 kW

COP Tj = +7°C	6.75	5.12
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	3.02 kW	2.83 kW
COP Tj = 12°C	11.00	7.64
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	6.39 kW	6.14 kW
COP Tj = Tbiv	3.01	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.99 kW	5.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	75 °C	75 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	38 W	38 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.23 kW	1.87 kW
Annual energy consumption Qhe	2996 kWh	3784 kWh