

Subtype Monoblock Heat Pump 8 10 kW **Certificate Holder** Zhejiang Zhongguang Electrical Co., Ltd. No. 96 Yunjing Road Shuige Industry Area, Lishui Address ZIP 323000 Zhejiang City Country CN **Certification Body** DIN CERTCO Gesellschaft für Konformitätsbewertung mbH Subtype title Monoblock Heat Pump 8 10 kW **Registration number** 011-1W0671 Heat Pump Type Outdoor Air/Water Refrigerant R32 Mass of Refrigerant 1.35 kg **Certification Date** 23.08.2023 Testing basis HP KEYMARK certification scheme rules V12



Model AHb08VR3HP

Model name	AHb08VR3HP	
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 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
ηs	196 %	137 %
Prated	8.20 kW	7.00 kW
SCOP	4.98	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	7.26 kW	6.22 kW
COP Tj = -7°C	3.26	2.04
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.49 kW	4.06 kW
COP Tj = +2°C	4.83	3.45
Cdh Tj = +2 °C	0.980	0.980
$Pdh Tj = +7^{\circ}C$	2.80 kW	2.97 kW
COP Tj = +7°C	6.28	4.56
Cdh Tj = +7 °C	0.950	0.970
$Pdh Tj = 12^{\circ}C$	3.26 kW	3.21 kW
COP Tj = 12°C	10.77	7.65
Cdh Tj = +12 °C	0.930	0.950
Pdh Tj = Tbiv	7.26 kW	6.22 kW
COP Tj = Tbiv	3.26	2.04



Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.63 kW	5.64 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.98	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	21 W	21 W
PSB	15 W	15 W
РСК	48 W	48 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.57 kW	1.36 kW
Annual energy consumption Qhe	3401 kWh	4126 kWh



Model AHb10VR3HP

AHb10VR3HP	
Heating (medium temp)	
Outdoor	
n/a	
Yes	
n/a	
n/a	
1x230V 50Hz	
n/a	
w passed	
•	
•	
-	
passea	
Low temperature	Medium temperature
62 dB(A)	62 dB(A)
Low temperature	Medium temperature
Low temperature 196 %	Medium temperature 135 %
•	-
196 %	135 %
196 % 10.10 kW	135 % 8.00 kW
196 % 10.10 kW 4.97	135 % 8.00 kW 3.45
196 % 10.10 kW 4.97 -7 °C	135 % 8.00 kW 3.45 -7 °C
196 % 10.10 kW 4.97 -7 °C -10 °C	135 % 8.00 kW 3.45 -7 °C -10 °C
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW 4.70	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW 3.33
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW 4.70 0.980	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW 3.33 0.990
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW 4.70 0.980 3.69 kW	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW 3.33 0.990 2.96 kW
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW 4.70 0.980 3.69 kW 6.94 0.960	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW 3.33 0.990 2.96 kW 4.60
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW 4.70 0.980 3.69 kW 6.94 0.960 3.26 kW	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW 3.33 0.990 2.96 kW 4.60 0.970 3.20 kW
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW 4.70 0.980 3.69 kW 6.94 0.960 3.26 kW 10.81	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW 3.33 0.990 2.96 kW 4.60 0.970 3.20 kW 7.78
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW 4.70 0.980 3.69 kW 6.94 0.960 3.26 kW 10.81 0.930	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW 3.33 0.990 2.96 kW 4.60 0.970 3.20 kW 7.78 0.950
196 % 10.10 kW 4.97 -7 °C -10 °C 8.96 kW 2.96 0.990 5.58 kW 4.70 0.980 3.69 kW 6.94 0.960 3.26 kW 10.81	135 % 8.00 kW 3.45 -7 °C -10 °C 7.11 kW 2.00 0.990 4.74 kW 3.33 0.990 2.96 kW 4.60 0.970 3.20 kW 7.78
	Outdoor n/a Yes n/a n/a 1x230V 50Hz n/a 1x230V 50Hz n/a w passed passed passed passed passed passed bas



Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.94 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	21 W	21 W
PSB	15 W	15 W
РСК	48 W	48 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.16 kW	1.73 kW
Annual energy consumption Qhe	4203 kWh	4797 kWh