Subtype Monobloc ACHP-H series 04/06	
Certificate Holder	Ningbo AUX Electric Co., Ltd
Address	1166 Mingguang North Road
ZIP	315191
City	Ningbo Zhejiang
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Monobloc ACHP-H series 04/06
Registration number	011-1W0585
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.05 kg
Certification Date	17.02.2023
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 11 (as of 2022-09)

Model ACHP-H04/4R3HA-M	
Model name	ACHP-H04/4R3HA-M
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	4.30 kW	4.36 kW
El input	0.83 kW	1.47 kW
COP	5.18	2.97

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	195 %	132 %
Prated	5.50 kW	5.50 kW
SCOP	4.96	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.87 kW
COP Tj = -7°C	2.96	1.84
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.90 kW	2.96 kW
COP Tj = +2°C	4.84	3.48
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW

COP Tj = +7°C	6.46	4.28
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	0.85 kW	0.85 kW
COP Tj = 12°C	9.62	6.58
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	2.96	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.34 kW	3.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.16 kW	2.08 kW
Annual energy consumption Qhe	2295 kWh	3345 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	252 %	161 %
Prated	5.50 kW	5.00 kW
SCOP	5.98	3.97
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.37 kW	4.87 kW
COP Tj = +2°C	3.94	2.51
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.21 kW
COP Tj = +7°C	5.82	3.62
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.57 kW	1.43 kW
COP Tj = 12°C	7.91	5.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.21 kW
COP Tj = Tbiv	5.82	3.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.37 kW	4.87 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.94	2.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.13 kW	0.13 kW
Annual energy consumption Qhe	1151 kWh	1627 kWh

Model ACHP-H06/4R3HA-M	
Model name	ACHP-H06/4R3HA-M
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	6.25 kW	6.40 kW
El input	1.30 kW	2.13 kW
COP	4.81	3.00

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
ηs	196 %	136 %
Prated	6.80 kW	6.30 kW
SCOP	4.99	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.02 kW	5.57 kW
COP Tj = -7°C	2.85	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.66 kW	3.39 kW
COP Tj = +2°C	4.98	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.35 kW	2.18 kW

COP Tj = +7°C	6.38	4.36
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.05 kW	0.97 kW
COP Tj = 12°C	9.67	6.89
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.02 kW	5.57 kW
COP Tj = Tbiv	2.95	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.42 kW	4.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	2.27 kW
Annual energy consumption Qhe	2818 kWh	3733 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	256 %	162 %
Prated	6.10 kW	5.10 kW
SCOP	6.41	3.99
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.85 kW	4.85 kW
COP Tj = +2°C	3.91	2.48
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.92 kW	3.28 kW
COP Tj = +7°C	5.89	3.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.74 kW	1.46 kW
COP Tj = 12°C	8.20	5.29
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.92 kW	3.28 kW
COP Tj = Tbiv	5.89	3.61
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	4.85 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.91	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.25 kW	0.25 kW
Annual energy consumption Qhe	1258 kWh	1652 kWh

Model ACHP-H04/4R3HA-M(NE)	
Model name	ACHP-H04/4R3HA-M(NE)
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	4.30 kW	4.36 kW
El input	0.83 kW	1.47 kW
COP	5.18	2.97

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	195 %	132 %
Prated	5.50 kW	5.50 kW
SCOP	4.96	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.87 kW
COP Tj = -7°C	2.96	1.84
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.90 kW	2.96 kW
COP Tj = +2°C	4.84	3.48
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW

COP Tj = +7°C	6.46	4.28
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	0.85 kW	0.85 kW
COP Tj = 12°C	9.62	6.58
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	2.96	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.34 kW	3.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.16 kW	2.08 kW
Annual energy consumption Qhe	2295 kWh	3345 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	252 %	161 %
Prated	5.50 kW	5.00 kW
SCOP	5.98	3.97
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.37 kW	4.87 kW
COP Tj = +2°C	3.94	2.51
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.21 kW
COP Tj = +7°C	5.82	3.62
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.57 kW	1.43 kW
COP Tj = 12°C	7.91	5.15
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Pdh Tj = Tbiv	3.54 kW	3.21 kW
COP Tj = Tbiv	5.82	3.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.37 kW	4.87 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.94	2.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.13 kW	0.13 kW
Annual energy consumption Qhe	1151 kWh	1627 kWh

Model ACHP-H06/4R3HA-M(NE)	
Model name	ACHP-H06/4R3HA-M(NE)
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	6.25 kW	6.40 kW
El input	1.30 kW	2.13 kW
COP	4.81	3.00

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate		
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ηs	196 %	136 %
Prated	6.80 kW	6.30 kW
SCOP	4.99	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.02 kW	5.57 kW
COP Tj = -7°C	2.85	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.66 kW	3.39 kW
COP Tj = +2°C	4.98	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.35 kW	2.18 kW

COP Tj = +7°C	6.38	4.36
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.05 kW	0.97 kW
COP Tj = 12°C	9.67	6.89
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.02 kW	5.57 kW
COP Tj = Tbiv	2.95	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.42 kW	4.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	2.27 kW
Annual energy consumption Qhe	2818 kWh	3733 kWh

EN 12102-1 | Warmer Climate

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EN 14825 | Warmer Climate

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SCOP	6.41	3.99
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Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.92 kW	3.28 kW
COP Tj = +7°C	5.89	3.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.74 kW	1.46 kW
COP Tj = 12°C	8.20	5.29
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.92 kW	3.28 kW
COP Tj = Tbiv	5.89	3.61
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	4.85 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.91	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.25 kW	0.25 kW
Annual energy consumption Qhe	1258 kWh	1652 kWh