Subtype ACHP-H series H12/H14/H16

Certificate Holder	Ningbo AUX Electric Co., Ltd
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City	Ningbo Zhejiang
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ACHP-H series H12/H14/H16
Registration number	011-1W1062
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	01.08.2025
Testing basis	HP KEYMARK certification scheme rules V14
Testing laboratory	TÜV Rheinland (GuangDong) Ltd., CN

Model Indoor unit ACHP-H12/4R3HC3-SI and outdoor unit ACHP-H12/4R3HC-SO	
Model name	Indoor unit ACHP-H12/4R3HC3-SI and outdoor unit ACHP-H12/4R3HC-SO
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
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	12.20 kW	12.20 kW
El input	2.44 kW	3.91 kW
COP	5.00	3.12

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	134 %
Prated	12.20 kW	12.00 kW
SCOP	4.65	3.42
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.03 kW	10.46 kW
COP Tj = -7°C	2.74	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.05 kW	5.98 kW
COP Tj = +2°C	4.36	3.22

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.88 kW	5.08 kW
COP Tj = +7°C	6.81	4.79
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.75 kW	4.36 kW
COP Tj = 12°C	10.09	7.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.03 kW	10.46 kW
COP Tj = Tbiv	2.74	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.38	1.64
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	0.12 kW	1.33 kW
Annual energy consumption Qhe	5413 kWh	7231 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	235 %	155 %
Prated	11.10 kW	14.50 kW
SCOP	5.95	3.95
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.82 kW	13.88 kW
COP Tj = +2°C	3.13	2.04
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.71 kW	9.51 kW
COP Tj = +7°C	5.73	3.63
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.65 kW	4.24 kW
COP Tj = 12°C	8.81	6.03
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.71 kW	9.51 kW

COP Tj = Tbiv	5.73	3.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.86 kW	13.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.13	2.04
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	0.24 kW	0.62 kW
Annual energy consumption Qhe	2291 kWh	4442 kWh

Model Indoor unit ACHP-H14/4R3HC3-SI and outdoor unit ACHP-H14/4R3HC-SO	
Model name	Indoor unit ACHP-H14/4R3HC3-SI and outdoor unit ACHP-H14/4R3HC-SO
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
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	14.50 kW	14.00 kW
El input	3.05 kW	4.64 kW
COP	4.75	3.02

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	179 %	133 %
Prated	12.60 kW	12.50 kW
SCOP	4.55	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.59 kW	10.46 kW
COP Tj = -7°C	2.70	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.19 kW	6.39 kW
COP Tj = +2°C	4.19	3.17

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.88 kW	5.08 kW
COP Tj = +7°C	6.82	4.79
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.76 kW	4.36 kW
COP Tj = 12°C	10.10	7.14
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.59 kW	10.46 kW
COP Tj = Tbiv	2.70	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.38	1.64
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	0.52 kW	1.83 kW
Annual energy consumption Qhe	5715 kWh	7590 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	230 %	155 %
Prated	12.10 kW	14.50 kW
SCOP	5.82	3.95
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.72 kW	13.88 kW
COP Tj = +2°C	3.12	2.04
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.65 kW	9.51 kW
COP Tj = +7°C	5.71	3.63
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.66 kW	4.24 kW
COP Tj = 12°C	8.74	6.03
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.65 kW	9.51 kW

COP Tj = Tbiv	5.71	3.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.72 kW	13.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.12	2.04
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	0.38 kW	0.62 kW
Annual energy consumption Qhe	2507 kWh	4442 kWh

Model Indoor unit ACHP-H16/4R3HC3-SI and outdoor unit ACHP-H16/4R3HC-SO	
Model name	Indoor unit ACHP-H16/4R3HC3-SI and outdoor unit ACHP-H16/4R3HC-SO
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
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	16.10 kW	16.10 kW
El input	3.46 kW	5.31 kW
COP	4.60	3.00

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	179 %	137 %
Prated	13.10 kW	13.00 kW
SCOP	4.55	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.59 kW	10.46 kW
COP Tj = -7°C	2.70	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.49 kW	6.39 kW
COP Tj = +2°C	4.19	3.17

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.88 kW	5.08 kW
COP Tj = +7°C	6.81	4.79
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.75 kW	4.36 kW
COP Tj = 12°C	10.09	7.14
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.59 kW	10.46 kW
COP Tj = Tbiv	2.70	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.38	1.64
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	1.02 kW	2.33 kW
Annual energy consumption Qhe	5939 kWh	7892 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	225 %	155 %
Prated	13.10 kW	14.50 kW
SCOP	5.70	3.95
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.77 kW	13.88 kW
COP Tj = +2°C	3.14	2.04
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.69 kW	9.51 kW
COP Tj = +7°C	5.40	3.63
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.54 kW	4.24 kW
COP Tj = 12°C	8.56	6.03
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.69 kW	9.51 kW

COP Tj = Tbiv	5.40	3.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.77 kW	13.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.13	2.04
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	0.33 kW	0.62 kW
Annual energy consumption Qhe	2783 kWh	4442 kWh