Subtype ACHP-H series H12/H14/H16	
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	ACHP-H series H12/H14/H16
Registration number	011-1W1050
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	12.06.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	TÜV Rheinland (GuangDong) Ltd., CN

Model Indoor unit ACHP-H12/5R3HB9-SI and outdoor unit ACHP-H12/5R3HB-SO	
Model name	Indoor unit ACHP-H12/5R3HB9-SI and outdoor unit ACHP-H12/5R3HB-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	3x400V 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	12.00 kW
El input	2.44 kW	3.91 kW
COP	5.00	3.07

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	10.03 kW	10.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °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	2.17 kW	1.54 kW
Annual energy consumption Qhe	5200 kWh	7128 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	3.87
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.86 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	65 °C	65 °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	2292 kWh	3740 kWh

Model Indoor unit ACHP-H14/5R3HB9-SI and outdoor unit ACHP-H14/5R3HB-SO	
Model name	Indoor unit ACHP-H14/5R3HB9-SI and outdoor unit ACHP-H14/5R3HB-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	3x400V 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	12.60 kW	12.50 kW
El input	3.05 kW	4.64 kW
COP	4.13	2.69

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	10.48 kW	10.50 kW
COP Tj = -7°C	2.71	2.05
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.51 kW	6.45 kW
COP Tj = +2°C	4.54	3.31

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.65 kW	4.85 kW
COP Tj = +7°C	6.54	4.82
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.66 kW	4.44 kW
COP Tj = 12°C	10.45	7.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.48 kW	10.46 kW
COP Tj = Tbiv	2.71	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.07 kW	11.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.33	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °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	0.53 kW	1.33 kW
Annual energy consumption Qhe	6278 kWh	8312 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	232 %	155 %
Prated	12.10 kW	14.50 kW
SCOP	5.87	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	65 °C	65 °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	2453 kWh	4029 kWh

Model Indoor unit ACHP-H16/5R3HB9-SI and outdoor unit ACHP-H16/5R3HB-SO	
Model name	Indoor unit ACHP-H16/5R3HB9-SI and outdoor unit ACHP-H16/5R3HB-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	3x400V 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	13.10 kW	13.00 kW
El input	3.46 kW	5.31 kW
COP	3.79	2.45

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 %	133 %
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	65 °C	65 °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	6856 kWh	8319 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	3.13	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	65 °C	65 °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	2791 kWh	4099 kWh