

NINGBO AUX ELECTRIC CO.,LTD

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The above designs and specifications are subject to change without prior notice. Final specifications please refer to latest technical specification provided by sales representative.



Official Accounts

AUX



2022

MODULAR CHILLER FCU & HEAT PUMP



AUX

Technology Leads Intelligent life

GROUP PROFILE

Established in 1986, AUX Group is an enterprise group which covers several industries: home appliances, electrical equipment, medical service, real estate and investment. For many years it ranked China's top 500 enterprises.

AUX, with profits of 70.6 billion RMB and 61.2 billion RMB of total assets till 2020, has nearly 30 thousand staffs, 11 manufacturing bases respectively in Ningbo(3 bases),Nanchang,Tianjin, Ma Anshan, Zhengzhou, Brazil, Indonesia,Thailand and Poland and 5 R&D centers in Ningbo, Hangzhou, Nanjing, Zhuhai and Japan as well.

As the largest industry of AUX, household electrical appliance has 27 experience in refrigeration technology. With strong R&D team, it also be in the industry advanced level of frequency conversion control, comfort and health technology and Intelligent forward-looking technology field. The sales volume of air conditioner from 2018 to 2020 ranks top3 in the world, and AUX has successfully been exclusive supplier of official air conditioning of the 19th Asian 2022 Hangzhou Games.

Established in 2003, AUX ELECTRIC CO., LTD is a professional central Air-Conditioner enterprise which is integrated the R&D,equipment manufacturing and sales service in business scope. After several years business developing, it has been awarded many honors like international development advanced enterprise,innovative demonstration enterprise,most popular market brand,best product quality,most competitive brand in top 10 air-conditioner supplier.

Aux product is cover unit air-conditioner,VRF and modular unit with 50 series and more than 1000 product type, its product are widely applied in government,public construction,education,medical service,decorative residential,business office and industrial project, etc, and exported to more than 100 country and region.

When AUX is working on its development, it also cares about performing its social responsibilities. In the past years, it has donated RMB 298 million in total to various public programs, such as the field of targeted poverty alleviation, education, disaster relief and environment protection.

In the new era, aiming to become a world-class enterprise, AUX will keep carrying out the mission of "Creating an intelligent living environment and Cultivating great talents", and work hard to achieve the strategic goal of "100 billion market value, 100 billion sales and 10 billion profits".

2022



Official exclusive supplier for the 2022 Asian Games

2019
Launched All DC Inverter ARV 6 Globally

2016
Launched All DC Inverter ARV 5X Globally

2011
Launched DC Inverter VRF System Globally

2007
Launched Digital Scroll ARV System

2004
Got CNAS Certification

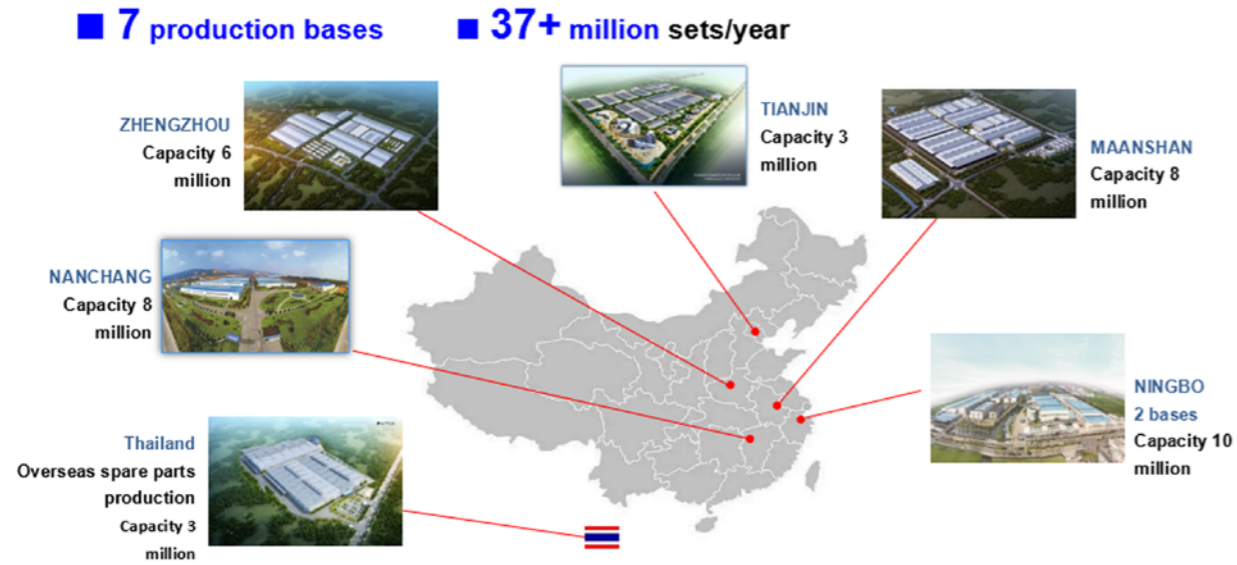
2001
Entered The CAC Field

1994
Started RAC Business

1986
Established AUX Group



Intelligent Manufacturing



AWARDS



International Design Excellence Awards



Technological Invention Award



Good Product Award



Quality Leader Brand

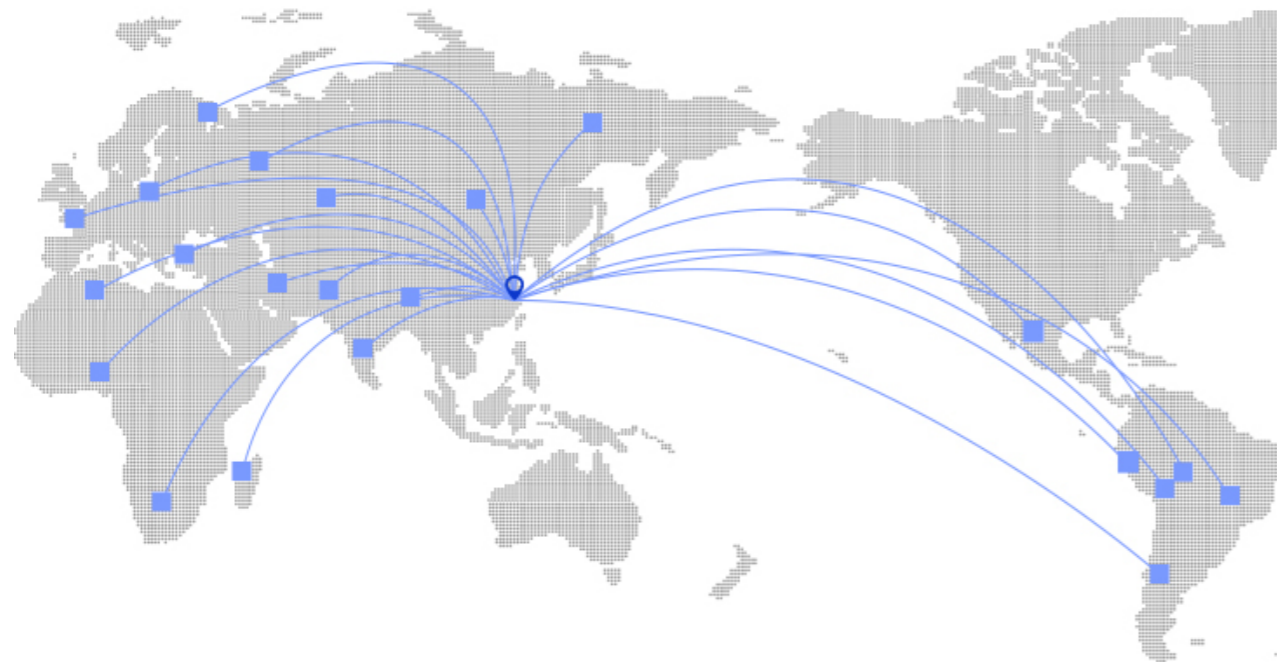


Golden Reputation



Excellent Design Award

Exported to 123 countries and regions , over 400 cooperative customers



HONOR



Demonstration enterprise



Gold Award



Pilot enterprise



Vice Chairman Unit

CERTIFICATION



CE



EAC



AHRI



ETL



ESMA



SASO



ROHS



EUROVENT

Health



Fresh Air Intake

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.



Long-term Filter

The latest long-term filter ensures better air quality. Meanwhile, the cleaning frequency has been decreased, and maintenance is also much easier.

Comfort



Anti-Cold-Air

When starting the heating operation, the fan speed is regulated automatically from the lowest speed to the preset level. This function can prevent cold air from blowing out at the beginning of the operation, which avoids the discomfort to the user.



Follow Me

Temperature sensor built in the remote control will sense its surrounding temperature, so the unit can achieve accurate and comfortable temperature control just like the air conditioner is following you.



Fast Cooling/Heating

Startup at high frequency increases cooling/heating capacity and reduces time to reach set temperature, thus you can enjoy cooling and heating in seconds.



Auto swing

Distributes cool/warm air to maximum area by moving horizontal and vertical fags automatically.



Independent Dehumidification

With the independent dehumidification function, the unit can efficiently dehumidify the room and give you more comfort.



3D Air Flow

Combine vertical and horizontal auto swing to ensure an even distribution of air flow throughout the room.



Dimmer

Press this button to shut off the display light on the front panel.



Silent

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation.

Reliability



Self-diagnosis Function

Once abnormal operation or parts failure happen, the unit will monitor the failures, the microcomputer of air conditioner will switch off and protect the system automatically when it happens. Meanwhile, the error or protection code will be displayed on the indoor unit.



Low Ambient Cooling

With special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature down to -15°C.



Intelligent Defrosting

Normal defrost function can only be operated in certain time, but AUX commercial air conditioner's intelligent defrost can start automatically according to the surrounding condition.



Compressor Heating Belt

Auxiliary heating belt can increase compressor oil temperature in winter and prevent defrosting water accumulated, which improves heat transfer efficiency.



No Frosting Chassis

The unique pipeline design makes the temperature on chassis higher than normal units, and it prevents defrosting water accumulated, which improves heat transfer efficiency and solves the drainage problem.



Golden Fin

Effectively prevent bacteria breeding and improve heat transfer efficiency. The unique anti-corrosive golden coating on the condenser can withstand the rain, salty air and other corrosive elements.



Fire-proof Electric Box

Electrical control box adopts new design, which can meet the higher fire safety requirement to prevent the internal fire due to the electric spark accident.

Energy Saving



180° Sine Wave Control

With considerable advantages, DC Inverter 180° sine wave driving technology has much wider range of frequency and voltage, higher energy efficiency, more smooth running and lower noise.



Sleep Mode

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first 2 hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



Hydrophilic aluminum fin

The louvered hydrophilic aluminum foil has improved by more than 10%. There refrigerant inlet and outlet are separated, to ensure the sub-cooling and enhance the cooling capacity.

Convenience



24-hour Timer

Users can turn on or turn off the air conditioner at any time in 24 hours with remote controller or wireless controller.



Built-in Drain Pump

The built-in pump can lift the condensing water 1200 mm upmost from the drainage pan.



Dual side Drainage

Both left and right sides of the indoor unit are possible for drainage hose connection, and it's easy for installation with this function.



Digital Tube Display

Easily for the running parameters checking and more convenient for troubleshooting, digital tube displays work status such as indoor temperature, setting temperature, the mode of operation, etc.



Remote Control

Help users to control the air conditioner easily, you can design your most comfortable settings with this controller.



Wired Control

Help users to control the air conditioner easily, the wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.



Central Control

With the control function of weekly timer, zone (or group) setting etc., the centralized controller can control 64 units with RS 485 wire connection and the central control adapter.



Washable Filter

The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.



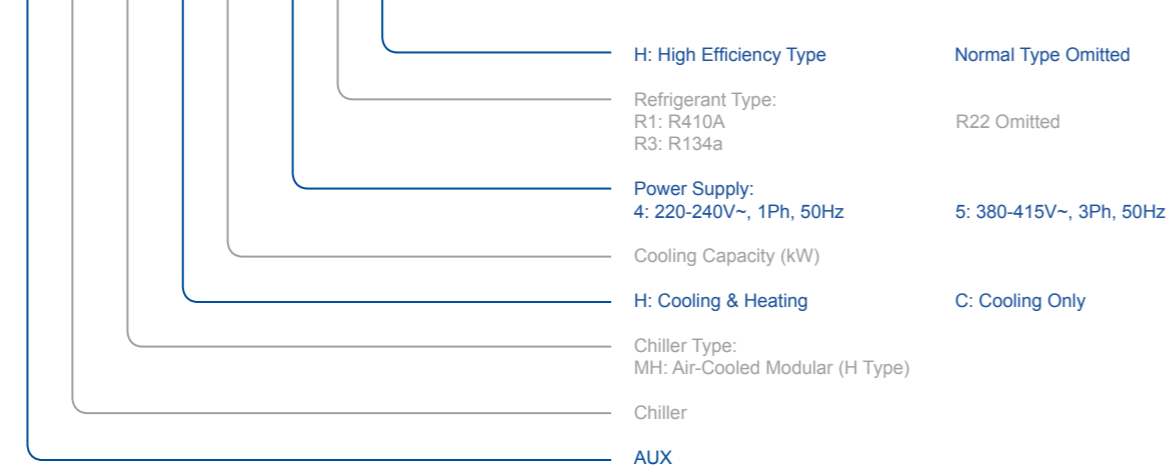
Auto Restart Function

If the air conditioner breaks off unexpectedly due to the power cut, it will restart with the previous setting mode automatically when the power resume.

Nomenclature

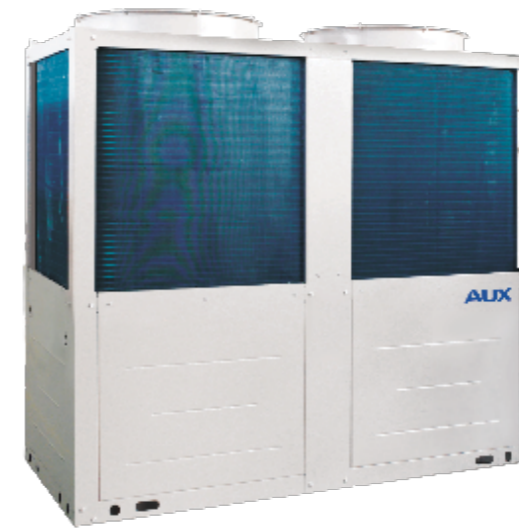
Chiller

A C - MH - C 240 / 5 R3 H



Product Lineup

Modular Chiller



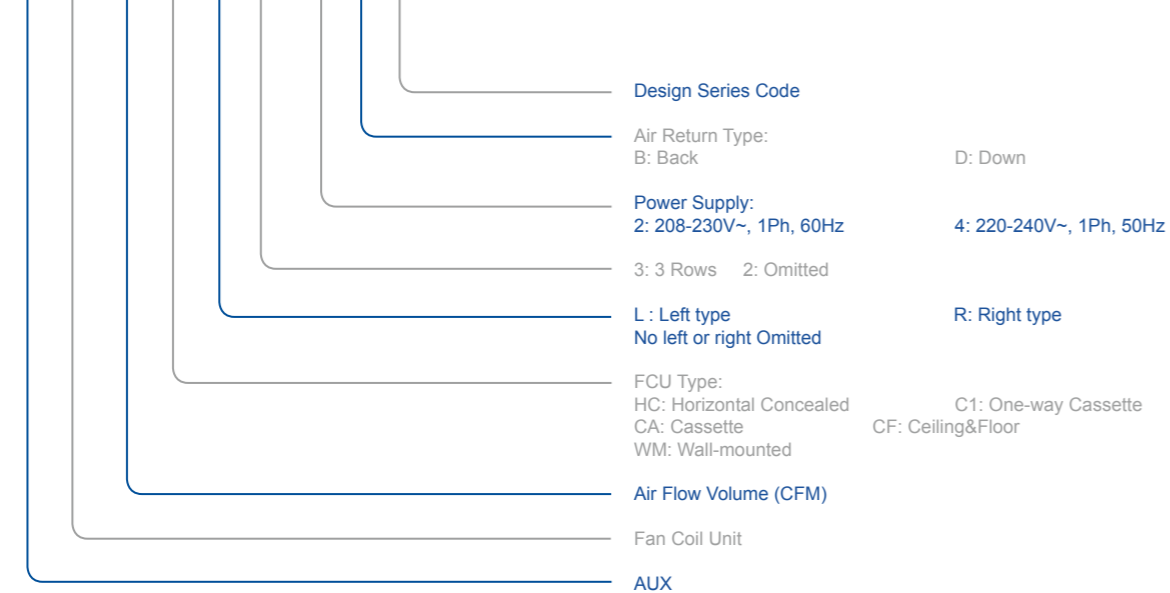
H Type
65/130kW



H Type
30kW

FCU

A FC - 220 HC L 3 / 4 D A



FCU	Appearance	Type	200CFM	300CFM	400CFM	500CFM	600CFM	800CFM	1000CFM	1200CFM	1400CFM	Page
Cassette		50HZ		•	•	•	•	•	•	•	•	12
Ceiling&Floor		50HZ			•	•	•	•	•			15
Horizontal Concealed		50HZ (A6 Series)	•	•	•	•	•	•	•	•	•	18
		50HZ (A6M Series)	•	•	•	•	•	•	•	•	•	18
Wall-mounted		50HZ	•	•	•	•	•	•				22

Nomenclature

Air Source Heat Pump Water Heater

Outdoor Unit

A L T - H 24 / 4 D R1 H A (U)

- Outdoor Unit Type:
U: Universal Outdoor Unit
CA: Four-way Cassette Outdoor Unit
MD: Mid ESP Duct Outdoor Unit
HD: High ESP Duct Outdoor Unit
FS: Floor-standing Outdoor Unit
TU: Top Discharge Outdoor Unit
- Design Series Code
- H: High Efficiency Type Normal Type Omitted
- Refrigerant Type:
R1: R410A R3: R32
R22 Omitted
- D: DC Inverter ON/OFF Omitted
- Power Supply:
2: 220-240V~, 1Ph, 60Hz 4: 220-240V~, 1Ph, 50Hz
5: 380-415V~, 3Ph, 50Hz 6: 380-415V~, 3Ph, 60Hz
9: 208-230V~, 3Ph, 60Hz N: 220-240V~, 1Ph, 50/60Hz
S: 380-415V~, 3Ph, 50/60Hz
- Cooling Capacity (kBtu/h)
- H: Cooling & Heating C: Cooling Only
- Climate Class:
T: T3 Type T1 Omitted
- Light Commercial AC
- AUX

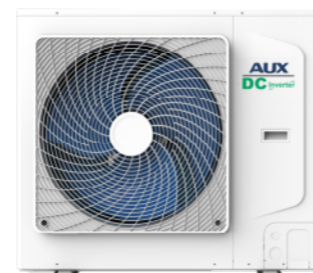
Product Lineup



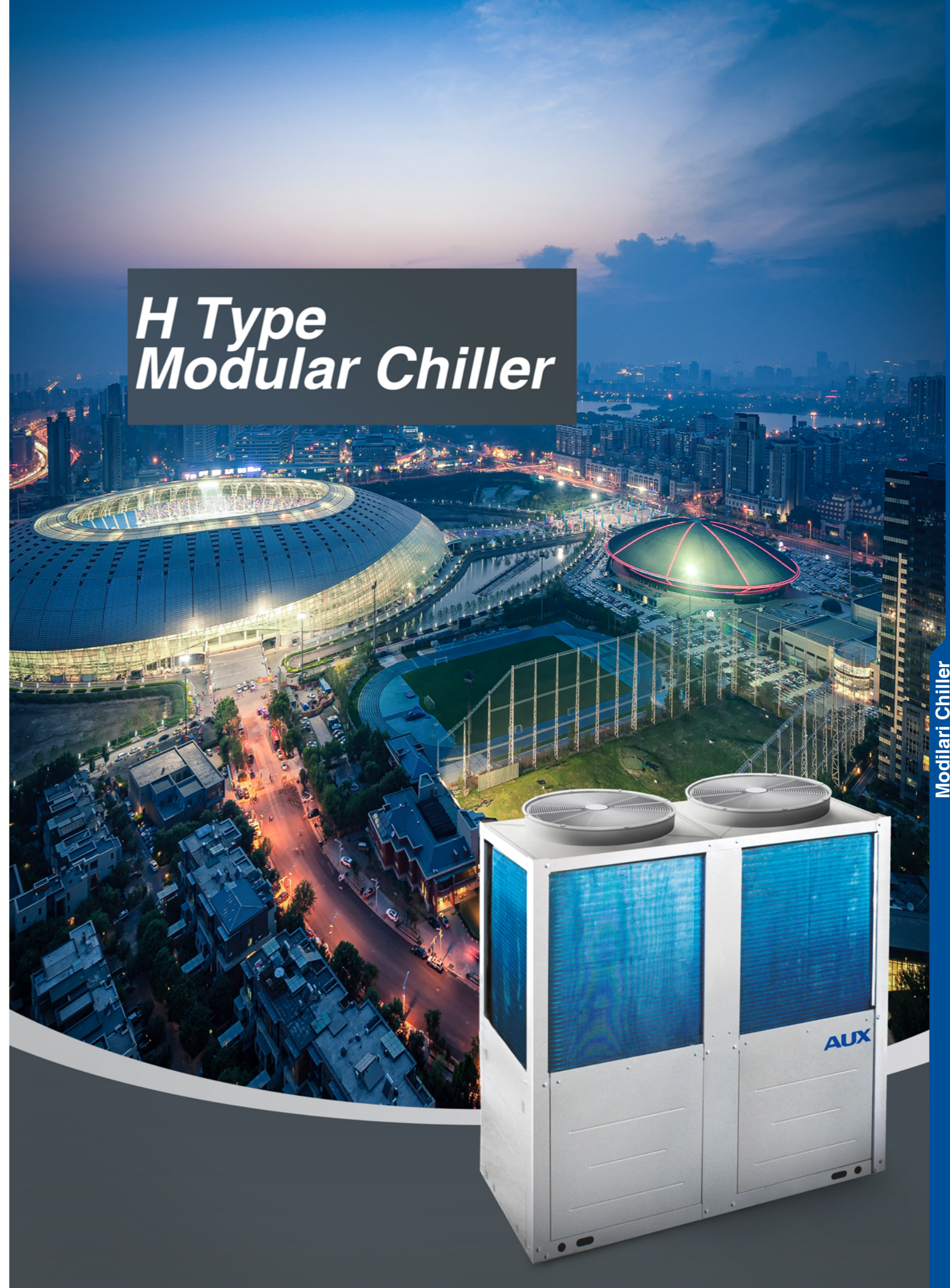
4/6KW



8/10KW



12/14/16KW



H Type Modular Chiller

Modular Chiller

H Type Modular Chiller

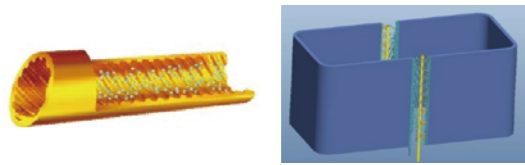


XK-02D



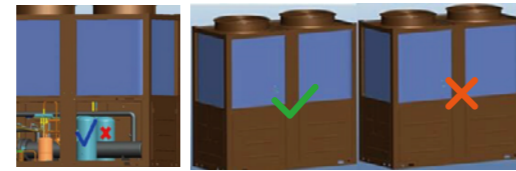
High Efficient Round Heat Exchanger

We selected high slimmer inner grooved copper tube in the modular chiller, which has improved more than 10% heat exchanging efficiency than the normal one.



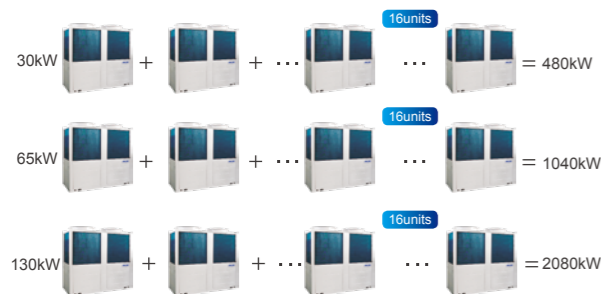
Back-Up Running

As one of outdoor units breaks down, the rest of outdoor units in the same refrigerant system can turn to operation urgently.



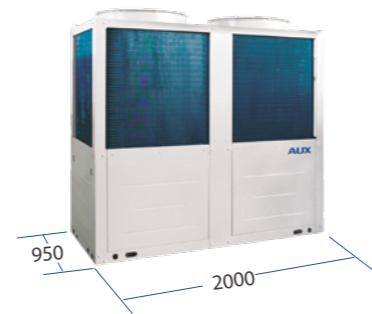
Modular Design

Any modular can be the main module in one combination. Different standard models can be flexibly combined together depend on users' requirement, and the maximum number of combinations system can reach 16.

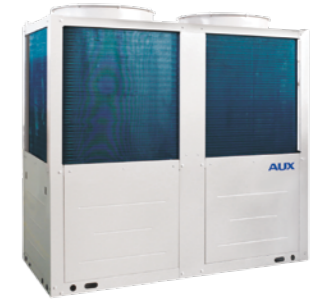


Compact Design

H type design takes less space.



H Type Modular Chiller



Specification-R410A 50Hz

Model name	Outdoor		ACMH-H30/5R1B	ACMH-H65/5R1A	ACMH-H65/5R1B	ACMH-H130/5R1C
Capacity	Cooling/Heating	Btu/h	100000/110000	222000/242000	222000/242000	443500/477700
		kW	30/33	65/71	65/71	130/142
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	9.40/10	19.2/21.5	19.2/21.5	38.4/40.5
	Cooling/Heating Current	A	17.7/18.0	36.3/38.9	36.3/38.9	72.6/81.9
Compressor	Type		Rotary	Hermetic Scroll	Rotary	Hermetic Scroll
	Quantity	Pieces	2	2	4	2
Refrigerant Type			R410a	R410A	R410A	R410a
Air Side Heat Exchanger	Type		High efficiency heat transfer tube series aluminum fin	High efficiency heat transfer tube series aluminum fin	High efficiency heat transfer tube series aluminum fin	High efficiency heat transfer tube series aluminum fin
	Fan Quantity	Pieces	1	2	2	2
	Air Flow Volume	m ³ /h	13500	13500×2	13500×2	27000×2
Water Side Heat Exchanger	Type		High-efficiency tube in tube heat exchanger	High-efficiency shell and tube heat exchanger	High-efficiency shell and tube heat exchanger	High-efficiency tube in tube heat exchanger
	Water Resistance	kPa	45	45	45	45
	Water Flow Volume	m ³ /h	5.2	11.2	11.2	22.4
	Max. Pressure	MPa	1	1	1	1
Dimension (W×D×H)	Net	mm	1000×950×1880	2000×950×1880	2000×950×1880	2200×1100×2270
	Packing	mm	1050×1000×1980	2050×1000×1980	2050×1000×1980	2250×1150×2370
Weight	Net/Gross	kg	310/325	580/595	625/640	945/965
Inlet/Outlet Water Pipe		mm	DN32	DN50	DN50	DN65
Noise		dB(A)	≤65	≤65	≤65	≤68
Safety Protection			High-efficiency shell and tube heat exchanger High/low pressure protection, lack/reverse phase protection, water lack protection, water flow protection, anti-freezing protection, etc.			

Note:

All the above data is tested base on the following working condition:

1. Rated cooling working condition: water flow 0.172 m³/(h·kW), chilled water inlet/outlet temperature 12°C /7°C, ambient temperature 35°C;
2. Rated heating working condition: water flow 0.172 m³/(h·kW), hot water inlet/outlet temperature 40°C /45°C, ambient temperature 7°C, WB temperature 6°C;
3. Keep 1m away from the chiller front and 1.5m high when detecting noise level, environmental noise is lower than 30db(A);

As a part of continuous product improvement, we reserves the right to change specifications without notice.

Cooling Capacity, Power Under Different Ambient and Water Outlet Temperature

ACMH-H30/5R1B Cooling capacity and power in cooling mode

Chilled water outlet temperature (°C)	Ambient Temperature(°C)											
	25		30		35		40		47		49	
	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW
5	33.68	8.35	31.62	8.61	29.19	8.73	28.36	10.53	27.01	11.52	26.74	11.63
7	34.95	8.44	33.41	9.14	30	9.4	29.92	10.69	28.5	11.7	28.22	11.82
10	37.13	8.54	35.46	9.21	33.38	10.37	31.64	10.81	30.13	11.83	29.83	11.94
13	38.43	8.63	36.4	9.35	34.66	10.67	33.07	10.92	31.49	11.95	31.18	12.06

ACMH-H65/5R1* Cooling capacity and power in cooling mode

Chilled water outlet temperature (°C)	Ambient Temperature(°C)											
	25		30		35		40		47		49	
	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW
5	66.53	15.42	63.18	16.8	60	18.32	56.98	19.97	54.11	21.76	53.29	22.27
7	69.85	15.57	66.34	16.97	65	19.2	59.83	20.37	56.82	21.98	56.14	22.66
10	73.35	15.73	69.66	17.14	66.15	19.84	62.82	20.49	59.66	22.53	59.13	22.78
13	77.02	15.88	73.14	17.31	69.46	20.02	65.96	20.75	62.64	22.82	58.95	23.06

ACMH-H130/5R1A Cooling capacity and power in cooling mode

Chilled water outlet temperature (°C)	Ambient Temperature(°C)											
	25		30		35		40		47		49	
	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW
5	133.06	30.83	126.36	33.61	123	36.63	113.96	39.93	108.22	43.52	106.58	44.01
7	139.71	31.14	132.68	33.94	130	38.4	119.66	40.33	113.64	43.96	112.28	44.95
10	146.7	31.45	139.31	34.28	132.3	38.57	125.64	40.73	119.32	44.4	118.26	45.36
13	154.03	31.77	146.28	34.63	138.92	39.74	131.92	41.14	125.28	44.84	125.54	45.77

Note:
As a part of continuous product improvement, AUX reserves the right to change specifications and design without prior notice. The specification subjects to the nameplate of the chiller

R32 Heat Pump Split type



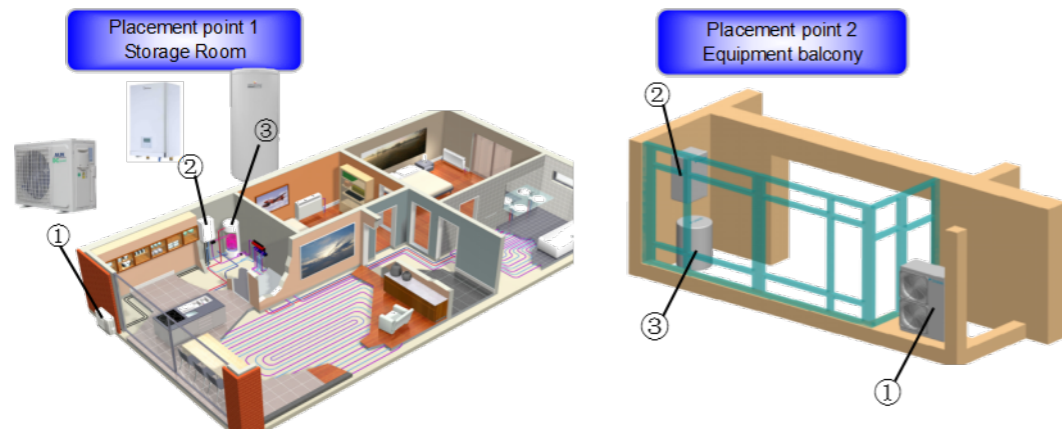
R32 Heat Pump Split type



Wired controller

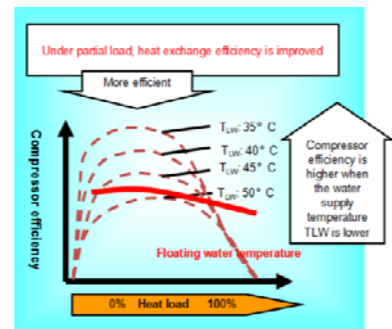


Heating+Cooling+Domestic hot water

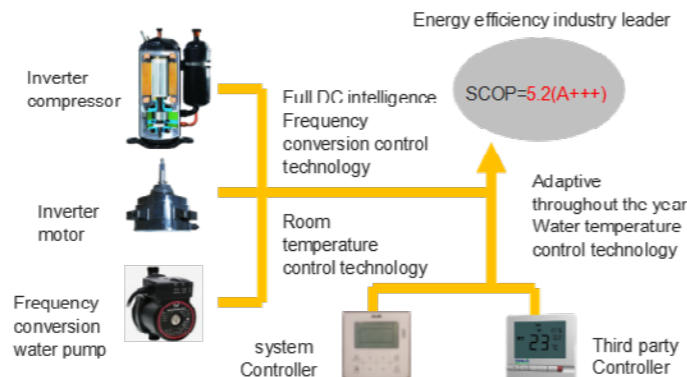


DC Inverter Technology, High Energy Efficient

The compressor speed is controlled according to the indoor heating demand, and the output is completely on demand, more comfortable enjoyment: In any case, it can maintain a stable indoor temperature. Soft start to avoid grid impact



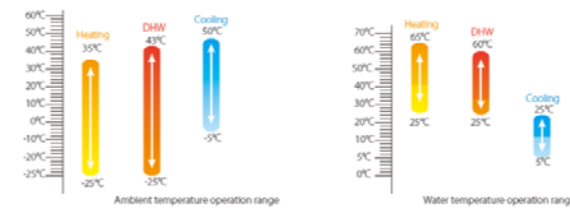
Full DC frequency conversion system, frequency conversion compressor + DC external fan + frequency conversion water pump
Leading in the energy efficiency industry, the highest SCOP=5.2(A+++), far exceeding the EU energy efficiency standard by 14.4%



R32 Heat Pump Split type

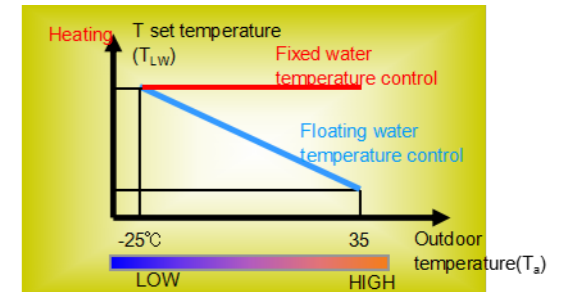
Wide ambient temperature and water temperature operation ranges

Advanced system design, ultra-standard matching and testing, to achieve a wide operating range of ambient temperature and a wide range of water temperature.



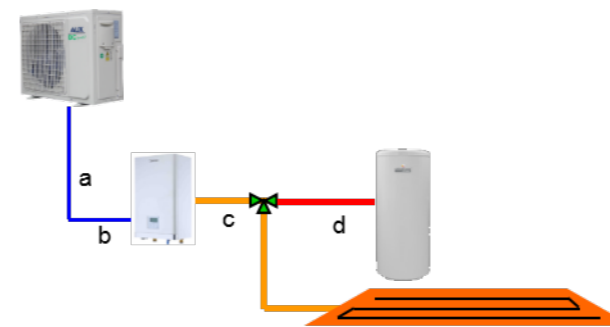
Floating water temperature control more comfort

Changes in outdoor air temperature, changes in heat required indoors, But fix water temperature, provide constant heat, overheating, waste



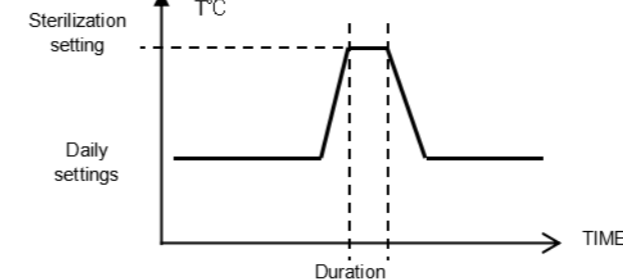
Long piping length

- Maximum piping length for outdoor unit and hydronic box (a+b) 30m
- Minimum piping length for outdoor unit and hydronic box (a+b) 3m
- Maximum piping height for outdoor unit and hydronic box (a) 20m
- When the water tank is connected, Maximum length between the 3-way valve and hydronic box (c) 3m
- Maximum length between the water tank and hydronic box (c+d) 10m



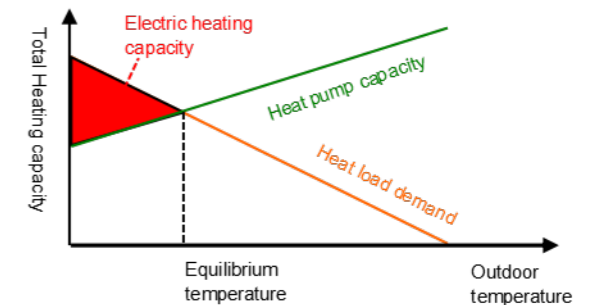
Sterilization function

With sterilization function, the use of domestic hot water is healthier.
Sterilization temperature: about 65°C
Duration: Suggest 10 minutes, refers to the time that can be maintained in high temperature water,
Operating time: once a week



Backup electric heating, More economical and more comfortable

Function: As a supplement to the capacity of the heat pump when the outdoor temperature is low
Turn on : Only when the heat pump capacity is slightly insufficient (that is, the outdoor temperature is below the equilibrium temperature). But the opening rate is very low throughout the heating season



User interface

- New type touch key wired controller
- Real-time check of operating parameters
- Built-in temperature sensor
- Built-in wifi module
- Multiple languages
- Modbus protocol and network flexibility, etc.



R32 Heat Pump Split type



Specification -R32 50&60HZ

Model name			AL-H14/NDR3H(U)	AL-H20/NDR3H(U)	AL-H27/NDR3H(U)	AL-H34/NDR3H(U)	AL-H41/SDR3H(U)	AL-H48/SDR3H(U)	AL-H55/SDR3H(U)	
Compatible hydronic box			6kW		10kW		16kW			
Power supply	Outdoor Unit	V/Ph/H	220-240/1/50		220-240/1/50		380-415/3/50			
	Hydronic Box	V/Ph/H	220-240/1/50		220-240/1/50		380-415/3/50			
Heating ₂	Capacity	kW	4	6	8	10	12	14	16	
	Rated input	kW	0.77	1.2	1.54	2	2.45	2.98	3.56	
	COP		5.2	5	5.2	5	4.9	4.7	4.5	
Heating ₁	Capacity	kW	4	6	8	10	12	14	16	
	Rated input	kW	1.33	2	2.5	3.23	3.87	4.67	5.52	
	COP		3	3	3.2	3.1	3.1	3	2.9	
Cooling ₂	Capacity	kW	4	5	7	9	10	12	14	
	Rated input	kW	0.8	1.04	1.4	1.88	2.5	3.33	4.12	
	EER		5	4.8	5	4.8	4	3.6	3.4	
Cooling ₁	Capacity	kW	4	5	7	9	10	12	14	
	Rated input	kW	1.18	1.67	2.06	2.73	3.7	4.62	5.6	
	EER		3.4	3	3.4	3.3	2.7	2.6	2.5	
Seasonal space heating energy efficiency class ¹	LWT at 35° C		A+++	A+++	A+++	A+++	A+++	A+++	A+++	
	LWT at 55° C		A++	A++	A++	A++	A++	A++	A++	
SCOP _s	LWT at 35° C		4.8	4.9	5.1	5.1	4.8	4.7	4.6	
	LWT at 55° C		3.3	3.5	3.3	3.4	3.4	3.4	3.4	
SEER	LWT at 7° C		5	5.3	5.8	5.9	4.9	4.8	4.7	
	LWT at 18° C		7.7	8.2	8.9	8.7	7.1	6.9	6.8	
MOP(Maximum overcurrent protection)	A		18	18	19	19	14	14	14	
Compressor	Type		Twin rotary DC inverter							
Outdoor fan	Motor type		Brushless DC motor							
	Number of fans		1	1	1	1	1	1	1	
Air side heat exchanger	Type		Finned tube							
Refrigerant(R32)	Factory charge	kg	1.2	1.2	1.4	1.84	1.84	1.84	1.84	
	Throttle type		Electronic expansion valve							
Piping connections	Type		Flare		Flare		Flare		Flare	
	Liquid/ Gas Dia.(OD)	mm	φ6.35/15.9	φ6.35/15.9	φ9.52/15.9	φ9.52/15.9	φ9.52/15.9	φ9.52/15.9	φ9.52/15.9	
Installation height difference	Outdoor unit above/below	m	20	20	20	20	20	20	20	
	Sound pressure level(Lm) _s	dB	55	55	58	57	57	58	58	
Net dimensions (W×H×D)	Outdoor Unit	mm	315×545×800		395×805×970		420×860×990			
	Hydronic Box	mm	420×790×270		420×790×270		420×790×270			
Packed dimensions (W×H×D)	Outdoor Unit	mm	400×620×920		495×895×1105		530×880×1085			
	Hydronic Box	mm	525×1050×360		525×1050×360		525×1050×360			
Net/Gross weight	Outdoor Unit	kg	37/40		65/69		100/112			
	Hydronic Box	kg	37/43		37/43		39/45			
Operating temperature range	Cooling	°C	10 to 48							
	Heating	°C	-25 to 35							
	DHW	°C	-25 to 43							
	Cooling	°C	5~-25							
Setting water temperature range	Heating	°C	25~65							
	DHW(tank)	°C	30~60							
	Piping connections	inch	R1"							
	Safety valve set pressure	MPa	0.3							
Water circuit	Flow switch	m ³ /h	0.36				0.6			
	Drainage pipe connection	mm	DN25							
	Expansion tank	Volume	L	8						
		Max. water pressure	MPa	0.3						
		Pre-pressure	MPa	0.1						
	Water side	Type	Plate type							
	Capacity of the back-up heater(Optional)	kW	3				3 or 9			
	Water pump head	m	9.5							

- Note:
- Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811:2013; (EU) No 813:2013; OJ 2014/C 207/02:2014.
 - Outdoor air temperature 7° C DB, 85% R.H.; EWT 30° C, LWT 35° C.
 - Outdoor air temperature 7° C DB, 85% R.H.; EWT 47° C, LWT 55° C.
 - Outdoor air temperature 35° C DB; EWT 23° C, LWT 18° C.
 - Outdoor air temperature 35° C DB; EWT 12° C, LWT 7° C.
 - Seasonal space heating energy efficiency class tested in average climate conditions.
 - Test standard: EN12102-1
 - Sound pressure level is the maximum value tested under the two conditions of Notes2 and Notes5.

Fan Coil Unit



Cassette

Specification-50Hz

Model		AFC-300CA/4BA	AFC-400CA/4BA	AFC-500CA/4BA	AFC-600CA/4BA
Air Volume(H/M/L)	CFM	300/259/212	400/341/282	500/429/353	600/450/300
	m ³ /h	510/440/360	680/580/480	850/730/600	1020/765/510
Cooling Capacity	H/M/L Speed W	3300/2840/2380	3900/3350/2810	4500/3600/3060	5406/4595/3514
Heating Capacity	H/M/L Speed W	4800/4200/3700	5800/5100/4500	6750/5940/5200	8115/6898/5275
Noise Level	dB(A)	≤39	≤42	≤45	≤45
Fan Motor	Fan Quantity	1	1	1	1
	Motor Quantity	1	1	1	1
	Power Input W	55	62	76	96
Water Flow Volume	m ³ /h	0.62	0.70	0.94	1.15
Hydraulic Resistance	kPa	26	27	29	31
Max.Working pressure	MPa	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net(Body) mm	570×570×260	570×570×260	570×570×260	835×835×250
	Packing(Body) mm	655×655×295	655×655×295	655×655×295	910×910×310
	Net(Panel) mm	650×650×55	650×650×55	650×650×55	950×950×55
	Packing(Panel) mm	710×710×80	710×710×80	710×710×80	1000×1000×100
Weight	Net/Gross(Body) kg	18/20.3	18/20.3	18/20.3	24.5/28
	Net/Gross(Panel)kg	2.2/3.7	2.2/3.7	2.2/3.7	5.3/7.8
Inlet/Outlet Water Pipe		Rc3/4"(DN20)			
Drain Pipe		R3/4"(DN20)			
Stuffing Quantity(20/40/40H)		181/362/414	181/362/414	181/362/414	79/170/182

Specification-50Hz

Model		AFC-800CA/4BA	AFC-1000CA/4BA	AFC-1200CA/4BA	AFC-1400CA/4BA
Air Volume(H/M/L)	CFM	800/600/400	1000/750/500	1200/900/600	1400/1050/700
	m ³ /h	1360/1020/680	1700/1275/850	2040/1530/1020	2380/1785/1190
Cooling Capacity	H/M/L Speed W	7210/6129/4687	9018/7665/5862	10810/9189/7027	12600/10719/8197
Heating Capacity	H/M/L Speed W	10807/9186/7025	13512/11485/8783	16205/13774/10553	18900/16066/12286
Noise Level	dB(A)	≤46	≤48	≤50	≤52
Fan Motor	Fan Quantity	1	1	1	1
	Motor Quantity	1	1	1	1
	Power Input W	134	165	189	225
Water Flow Volume	m ³ /h	1.4	1.68	1.82	2.25
Hydraulic Resistance	kPa	34	36	39	42
Max.Working pressure	MPa	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net(Body) mm	835×835×250	835×835×290	835×835×290	835×835×290
	Packing(Body) mm	910×910×310	910×910×350	910×910×350	910×910×350
	Net(Panel) mm	950×950×55	950×950×55	950×950×55	950×950×55
	Packing(Panel) mm	1000×1000×100	1000×1000×100	1000×1000×100	1000×1000×100
Weight	Net/Gross(Body) kg	25.5/29	26.5/31	28/32.5	28/32.5
	Net/Gross(Panel)kg	5.3/7.8	5.3/7.8	5.3/7.8	5.3/7.8
Inlet/Outlet Water Pipe		Rc3/4"(DN20)			
Drain Pipe		R3/4"(DN20)			
Stuffing Quantity(20/40/40H)		79/170/182	74/156/172	74/156/172	74/156/172

- Note:
- Cooling capacity test conditions:Air inlet Temp. : 27° C DB/19.5° C WB,Water inlet/outlet Temp. : 7° C /12° C ;
 - Heating capacity test conditions:Air inlet Temp. : 21° C DB,Water inlet Temp. : 60° C;
 - Noise level is tested in full-anechoic room.

Heating capacity, Power Under Different Ambient and Water Outlet Temperature

ACMH-H30/5R1B Heating capacity and power in heating mode (RH is 90%)

Hot water outlet temperature (°C)	Outdoor DB temperature(°C)									
	-12		-5		0		7		12	
	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW
35	---	---	22.17	10.41	27.46	10.59	33.5	10.86	39.62	11.04
40	---	---	22.89	9.56	28.28	9.69	33	10	40.75	10.14
45	19.22	8.52	23.73	8.72	29.22	8.9	35.92	9.19	42.01	9.29
50	19.79	7.94	24.36	8.13	30.11	8.19	36.71	8.42	43.28	8.66

ACMH-H65/5R1* Heating capacity and power in heating mode (RH is 90%)

Hot water outlet temperature (°C)	Outdoor DB temperature(°C)									
	-12		-5		0		7		12	
	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW
35	39.38	17.17	48.62	17.5	60.03	17.84	73.2	18.18	86.38	18.53
40	38.24	18.58	47.2	18.94	58.28	19.3	72.07	19.68	83.86	20.05
45	---	---	45.83	20.5	56.58	20.89	71	21.5	81.42	21.71
50	---	---	44.49	22.19	54.93	22.62	66.99	23.07	79.05	23.51

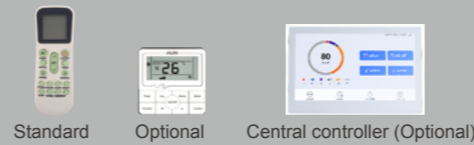
ACMH-H130/5R1C Heating capacity and power in heating mode (RH is 90%)

Hot water outlet temperature (°C)	Outdoor DB temperature(°C)									
	-12		-5		0		7		12	
	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW
35	79.34	31.42	97.95	32.08	120.92	33.76	147.47	34.45	174.01	35.14
40	77.03	34.24	95.09	35.96	117.4	36.7	143.17	37.44	168.94	38.19
45	---	---	92.32	37.59	113.98	38.89	140	40.5	164.02	41.51
50	---	---	89.63	40.89	110.66	41.35	134.95	43.24	159.24	45.12

Note:
As a part of continuous product improvement, AUX reserves the right to change specifications and design without prior notice. The specification subjects to the nameplate of the chiller

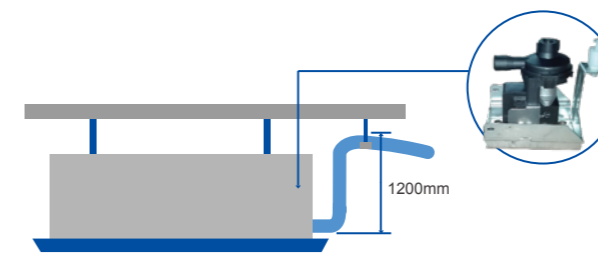
Fan Coil Unit

Cassette



Built-In Water Drainage Pump

The built-in pump can lift condensation water up to 1200mm high from the drainage pan.



Optional Air Outlet Panel (Round Flow/Four-way Cassette)



Four-way Cassette

Round Flow Cassette

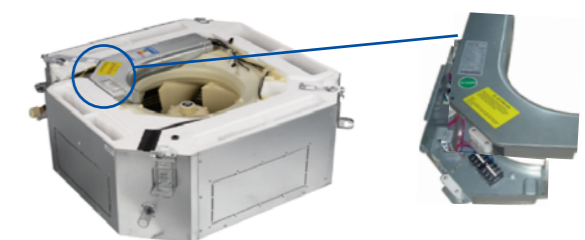
Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Optimized Electric Box

Better fire-proof and easy to maintenance.





Ceiling&Floor Fan Coil Unit

Fan Coil Unit

Ceiling&Floor



Standard



Optional



Central controller (Optional)



3D Air Swing

Vertical and horizontal swing makes air below to every corner of the room.



Ultra Slim Design

The thickness is only 205mm, save installation space.



Innovative Centrifugal Fan

All units are equipped with 3-speed fan mode, adjusting the air flow rate in accordance with the ceiling height. Innovative centrifugal fan provides larger air volume but lower noise, making the air supply more quietly and smoothly.



Flexible Installation

Can be vertically installed against the wall or horizontally installed under the ceiling.

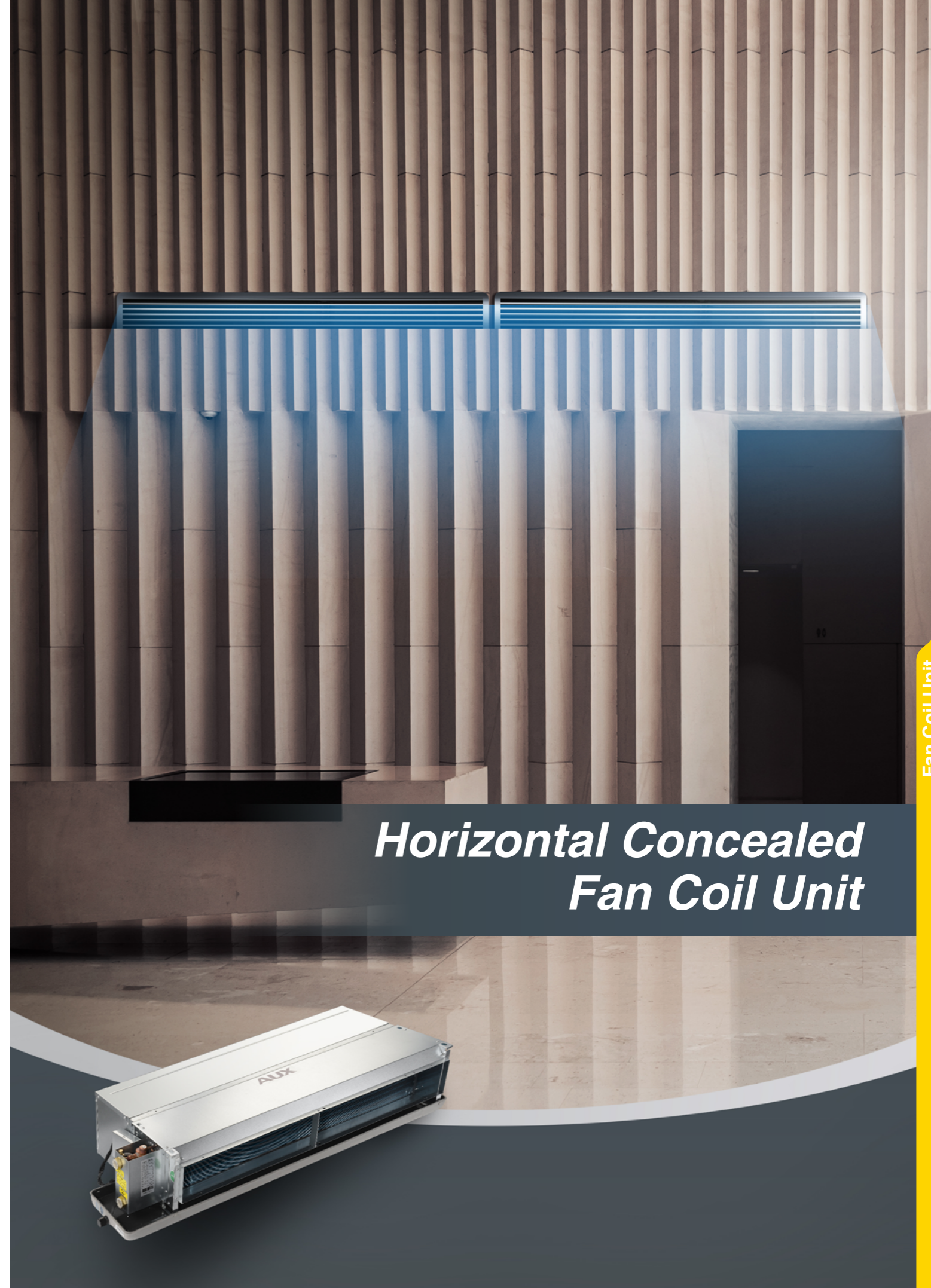


Ceiling&Floor



Specification-50Hz

Model		AFC-400CF/4B	AFC-500CF/4B	AFC-600CF/4B	AFC-800CF/4B	AFC-1000CF/4B
Air Volume(H/M/L)	CFM	400/300/200	500/375/250	600/450/300	800/600/400	1000/750/500
	m ³ /h	680/510/340	850/638/425	1020/765/510	1360/1020/680	1700/1275/850
Cooling Capacity	H/M/L Speed	3600/3075/2352	4514/3837/2934	5406/4595/3514	7210/6129/4687	9000/7665/5862
	W					
Heating Capacity	H/M/L Speed	5418/4605/3522	6767/5752/4399	8115/6898/5275	10807/9186/7025	13512/11485/8786
	W					
Noise Level		≤42	≤45	≤48	≤48	≤50
	dB(A)					
Fan Motor	Fan Quantity	2	2	3	3	4
	Motor Quantity	1	1	1	1	1
	Power Input	78	93	117	190	230
Water Flow Volume	m ³ /h	0.62	0.80	0.98	1.25	1.58
Hydraulic Resistance	kPa	16	20	22	30	44
Max.Working pressure	MPa	1.6	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net(Body)	929×660×205	929×660×205	1280×660×205	1280×660×205	1631×660×205
	Packing(Panel)	1010×720×290	1010×720×290	1360×720×290	1360×720×290	1710×720×290
Weight	Net/Gross(Body)	24/27	25/28	30/35	33/38	44/50
	kg					
Inlet/Outlet Water Pipe				Rc3/4"(DN20)		
Drain Pipe				R3/4"(DN20)		
Stuffing Quantity(20/40/40H)		143/297/329	143/297/329	103/211/236	103/211/236	103/211/236



Horizontal Concealed Fan Coil Unit



Note:
 1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5°C WB, Water inlet/outlet Temp. : 7°C /12°C ;
 2. Heating capacity test conditions: Air inlet Temp. : 21°C DB, Water inlet Temp. : 60°C ;
 3. Noise level is tested in full-anechoic room.

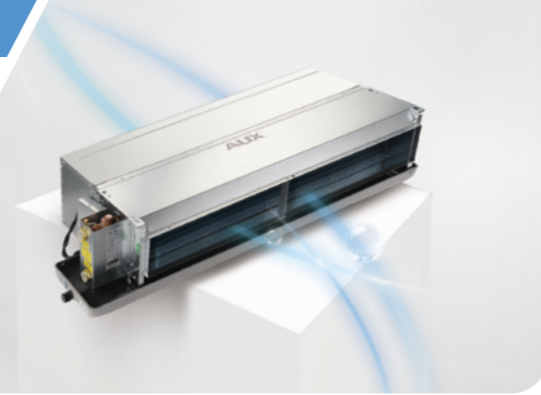
Horizontal Concealed



Thermostat



Central controller (Optional)



Return Air Plenum and Filter Air Standard

Back air return and down air return can be free choice, the long term air filter ensures better air quality.



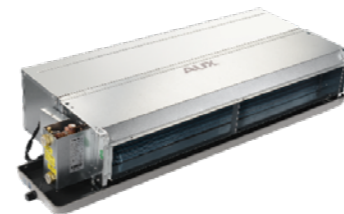
Pipe Connecting Direction Free Choice

Right connecting pipe is standard, and left connecting pipe is optional; Left and right drain pipe also can be free choice.



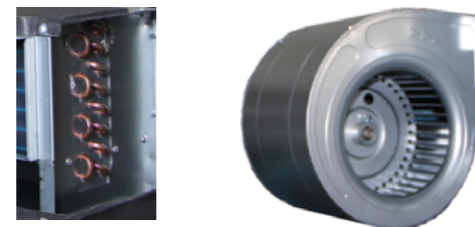
Adjustable ESP

There are two types ESP can be selected for each mode. Standard (30Pa) /Optional (12 Pa)



External Static Pressure

3 rows and metal fan wheel are standard for A6M series.



Horizontal Concealed FCU



Specification-50Hz A6 Series

Model	Left (Right)	AFC-200HCL(R)/4BA6	AFC-300HCL(R)/4BA6※	AFC-400HCL(R)/4BA6※	AFC-500HCL(R)/4BA6	AFC-600HCL(R)/4BA6※
Air Volume(H/M/L)	CFM	200/150/100	300/225/150	400/300/200	500/375/250	600/450/300
	m³/h	340/255/170	510/382/255	680/510/340	850/638/425	1020/765/510
Cooling Capacity	H/M/L Speed W	1800/1537/1175	2700/2305/1763	3600/3075/2352	4500/3837/2934	5400/4595/3514
	Heating Capacity	H/M/L Speed W	2700/2303/1761	4050/3460/2646	5400/4605/3522	6750/5752/4399
External Static Pressure	Pa	Standard (30Pa) / Optional (12 Pa)				
Rows Of Coil		2	2	2	2	2
Noise Level		≤40	≤42	≤44	≤46	≤47
	dB(A)					
Fan Motor	Fan Quantity	1	2	2	2	2
	Motor Quantity	1	1	1	1	1
	Power Input W	44	59	72	87	108
Water Flow Volume	m³/h	0.35	0.61	0.8	0.95	1.08
Hydraulic Resistance	kPa	≤30	≤30	≤30	≤30	≤40
Max.Working pressure	MPa	1.6	1.6	1.6	1.6	1.6
Dimension(WxDxH)	Net mm	694×518×240	894×518×240	894×518×240	1039×518×240	1129×518×240
	Packing mm	715×260×545	915×260×545	915×260×545	1060×260×545	1150×260×545
Net/Gross Weight	kg	12.6/14.6	16.4/18.9	16.8/19.4	18.9/21.9	20.2/23.7
Inlet/Outlet Water Pipe		Rc3/4"(DN20)				
Drain Pipe		R3/4"(DN20)				
Stuffing Quantity(20/40/40H)		256/585/648	192/468/520	192/468/520	176/396/440	160/396/440

Specification-50Hz A6 Series

Model	Left (Right)	AFC-800HCR3/4BA6	AFC-1000HCR3/4BA6	AFC-1200HCR3/4BA6	AFC-1400HCR3/4BA6
Air Volume(H/M/L)	CFM	800/600/400	1000/750/500	1200/900/600	1400/1050/700
	m³/h	1360/1020/680	1700/1275/850	2040/1530/1020	2380/1785/1190
Cooling Capacity	H/M/L Speed W	7200/6129/4687	9000/7665/5862	10800/9189/7027	12600/10719/8197
	Heating Capacity	H/M/L Speed W	10800/9186/7025	13500/11485/8783	16200/13774/10533
External Static Pressure	Pa	Standard (30Pa) / Optional (12 Pa)			
Rows Of Coil		3	3	3	3
Noise Level		≤48	≤50	≤52	≤54
	dB(A)				
Fan Motor	Fan Quantity	3	4	4	4
	Motor Quantity	1	1	1	1
	Power Input W	156	174	212	253
Water Flow Volume	m³/h	1.39	1.56	1.92	2.6
Hydraulic Resistance	kPa	≤40	≤40	≤40	≤50
Max.Working pressure	MPa	1.6	1.6	1.6	1.6
Dimension(WxDxH)	Net mm	1319×518×240	1619×518×240	1719×518×240	1909×518×240
	Packing mm	1340×260×545	1640×260×545	1740×260×545	1930×260×545
Net/Gross Weight	kg	26/30	31.3/35.8	33.4/38	35.6/41.1
Inlet/Outlet Water Pipe		Rc3/4"(DN20)			
Drain Pipe		R3/4"(DN20)			
Stuffing Quantity(20/40/40H)		144/306/340	117/260/290	117/252/280	108/216/240

Note:

1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5°C WB, Water inlet/outlet Temp. : 7°C /12°C ;
2. Heating capacity test conditions: Air inlet Temp. : 21°C DB, Water inlet Temp. : 60°C ;
3. External Static Pressure :50Pa is optional;
4. Noise level is tested in full-anechoic room;
5. ※Models had 3 Rows of coil can be choose.

Horizontal Concealed FCU



Specification-50Hz A6M Series (3 Rows Steel Fan)

Model	Left (Right)	AFC-200HCL(R)/4BA6M	AFC-300HCL(R)/4BA6M	AFC-400HCL(R)/4BA6M	AFC-500HCL(R)/4BA6M	AFC-600HCL(R)/4BA6M
Air Volume(H/M/L)	CFM	200/150/100	300/225/150	400/300/200	500/375/250	600/450/300
	m ³ /h	340/255/170	510/382/255	680/510/340	850/638/425	1020/765/510
Cooling Capacity	H/M/L Speed W	1800/1537/1175	2700/2305/1763	3600/3075/2352	4500/3837/2934	5400/4595/3514
	H/M/L Speed W	2700/2303/1761	4050/3460/2646	5400/4605/3522	6750/5752/4399	8100/6898/5275
External Static Pressure	Pa	Standard (30Pa) / Optional (12 Pa)				
Rows Of Coil		3	3	3	3	3
Noise Level	dB(A)	≤40	≤42	≤44	≤46	≤47
Fan Motor	Fan Quantity	1	2	2	2	2
	Motor Quantity	1	1	1	1	1
	Power Input W	44	59	72	87	108
Water Flow Volume	m ³ /h	0.35	0.61	0.8	0.95	1.08
Hydraulic Resistance	kPa	≤30	≤30	≤30	≤30	≤40
Max.Working pressure	MPa	1.6	1.6	1.6	1.6	1.6
Dimension(WxDxH)	Net mm	694×518×240	894×518×240	894×518×240	1039×518×240	1129×518×240
	Packing mm	715×260×545	915×260×545	915×260×545	1060×260×545	1150×260×545
Net/Gross Weight	kg	14.1/16.1	18.3/20.8	18.6/21.2	20.8/23.8	22.2/25.7
Inlet/Outlet Water Pipe		Rc3/4"(DN20)				
Drain Pipe		R3/4"(DN20)				
Stuffing Quantity(20/40/40H)		256/585/648	192/468/520	192/468/520	176/396/440	160/396/440

Specification-50Hz A6M Series (3 Rows Steel Fan)

Model	Left (Right)	AFC-800HCR3/4BA6M	AFC-1000HCR3/4BA6M	AFC-1200HCR3/4BA6M	AFC-1400HCR3/4BA6M
Air Volume(H/M/L)	CFM	800/600/400	1000/750/500	1200/900/600	1400/1050/700
	m ³ /h	1360/1020/680	1700/1275/850	2040/1530/1020	2380/1785/1190
Cooling Capacity	H/M/L Speed W	7200/6129/4687	9000/7665/5862	10800/9189/7027	12600/10719/8197
	H/M/L Speed W	10800/9186/7025	13500/11485/8783	16200/13774/10533	18900/16066/12286
External Static Pressure	Pa	Standard (30Pa) / Optional (12 Pa)			
Rows Of Coil		3	3	3	3
Noise Level	dB(A)	≤48	≤50	≤52	≤54
Fan Motor	Fan Quantity	3	4	4	4
	Motor Quantity	2	2	2	2
	Power Input W	156	174	212	253
Water Flow Volume	m ³ /h	1.4	1.7	2.0	2.3
Hydraulic Resistance	kPa	≤40	≤40	≤40	≤50
Max.Working pressure	MPa	1.6	1.6	1.6	1.6
Dimension(WxDxH)	Net mm	1319×518×240	1719×518×240	1719×518×240	1909×518×240
	Packing mm	1340×260×545	1740×260×545	1740×260×545	1930×260×545
Net/Gross Weight	kg	28.9/32.9	36.2/40.7	36.9/41.5	40.8/46.3
Inlet/Outlet Water Pipe		Rc3/4"(DN20)			
Drain Pipe		R3/4"(DN20)			
Stuffing Quantity(20/40/40H)		144/306/340	117/260/290	117/252/280	108/216/240

Note:
 1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5°C WB, Water inlet/outlet Temp. : 7°C /12°C ;
 2. Heating capacity test conditions: Air inlet Temp. : 21°C DB, Water inlet Temp. : 60°C ;
 3. External Static Pressure : 50Pa is optional;
 4. Noise level is tested in full-anechoic room.



Wall-mounted Fan Coil Unit

Wall-mounted



Standard



Central controller (Optional)



A Variety of Panels

A variety of panels can be chosen



LH

LI

LK

Long Term Washable Air Filter

The wash period is two times longer than normal filter.



Failure Automatic Detection

If there is a failure, the indicator will flash and the failure code will display on the wired controller, the failure cause is easier to be found.

Two Way Valve & Three Way Valve (Optional)



Two way valve



Three way valve

Wall-mounted



Specification-50Hz 4 Panels LH/LR/LK/LI

Model			AFC-200WM/4B(L*)	AFC-300WM/4B(L*)	AFC-400WM/4B(L*)
Air Volume	H/M/L Speed	CFM	200/150/100	300/225/150	400/300/200
		m ³ /h	340/255/170	510/383/255	680/510/340
Cooling Capacity	H/M/L Speed	W	1808/1537/1175	2712/2305/1763	3618/3075/2352
Heating Capacity	H/M/L Speed	W	2709/2303/1761	4070/3460/2646	5418/4605/3522
Noise Level		dB(A)	≤42	≤42	≤43
Fan Motor	Fan Quantity		1	1	1
	Motor Quantity		1	1	1
	Power Input	W	52	52	62
Water Flow Volume		kg/h	350	610	800
Hydraulic Resistance		kPa	30	30	30
Max. Working pressure		MPa	1.6	1.6	1.6
Dimension (WxDxH)	Net	mm	850×300×198	850×300×198	850×300×198
	Packing	mm	920×370×282	920×370×282	920×370×282
Net/Gross Weight		kg	11/12.5	11/12.5	12.6/14.5
Inlet/Outlet Water Pipe				Rc1/2"(DN15)	
Drain Pipe				R1/2"(DN15)	
Stuffing Quantity(20/40/40H)			350/735/882	350/735/882	350/735/882

Specification-50Hz 4 Panels LH/LR/LK/LI

Model			AFC-500WM/4B(L*)	AFC-600WM/4B(L*)	AFC-800WM/4B(L*)
Air Volume	H/M/L Speed	CFM	500/375/250	600/450/300	800/600/400
		m ³ /h	850/638/425	1020/765/510	1360/1020/680
Cooling Capacity	H/M/L Speed	W	4514/3837/2934	5406/4595/3514	7210/6129/4687
Heating Capacity	H/M/L Speed	W	6767/5752/4399	8155/6989/5275	10807/9186/7025
Noise Level		dB(A)	≤47	≤47	≤49
Fan Motor	Fan Quantity		1	1	1
	Motor Quantity		1	1	1
	Power Input	W	76	96	134
Water Flow Volume		kg/h	950	1080	1390
Hydraulic Resistance		kPa	30	40	40
Max. Working pressure		MPa	1.6	1.6	1.6
Dimension (WxDxH)	Net	mm	970×315×235	970×315×235	1100×330×235
	Packing	mm	1010×380×300	1010×380×300	1140×390×300
Net/Gross Weight		kg	15/17	16/18	20/23
Inlet/Outlet Water Pipe				Rc1/2"(DN15)	
Drain Pipe				R1/2"(DN15)	
Stuffing Quantity(20/40/40H)			266/558/637	266/558/637	238/495/546

Note:

1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5°C WB, Water inlet/outlet Temp. : 7°C /12°C ;
2. Heating capacity test conditions: Air inlet Temp. : 21°C DB, Water inlet Temp. : 60°C ;
3. External Static Pressure :50Pa is optional;
4. Noise level is tested in full-anechoic room.

Chiller Controller

Chiller Controller



XK-02D



XK-05-DY



YK-K



XK-05

FCU controller

FCU Central controller



CC-02 Controller
Max 64 FCUs

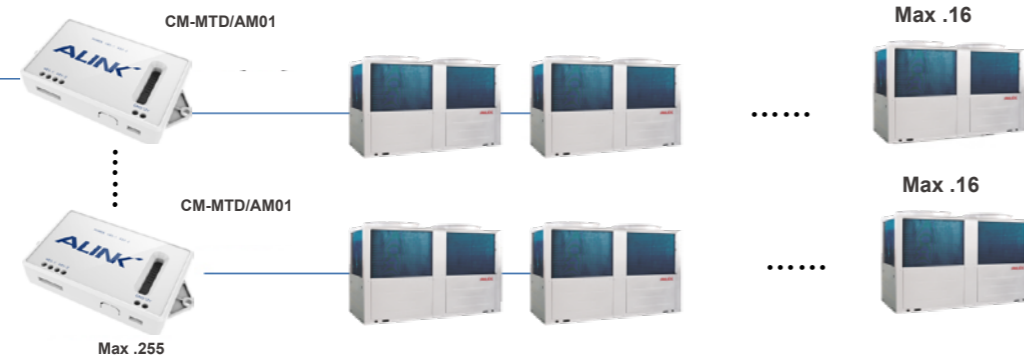


CM-MTD/AM01 (NEW gateway)
1 Gateway matches 1 FCU



Gateway assembly
Only for duct type

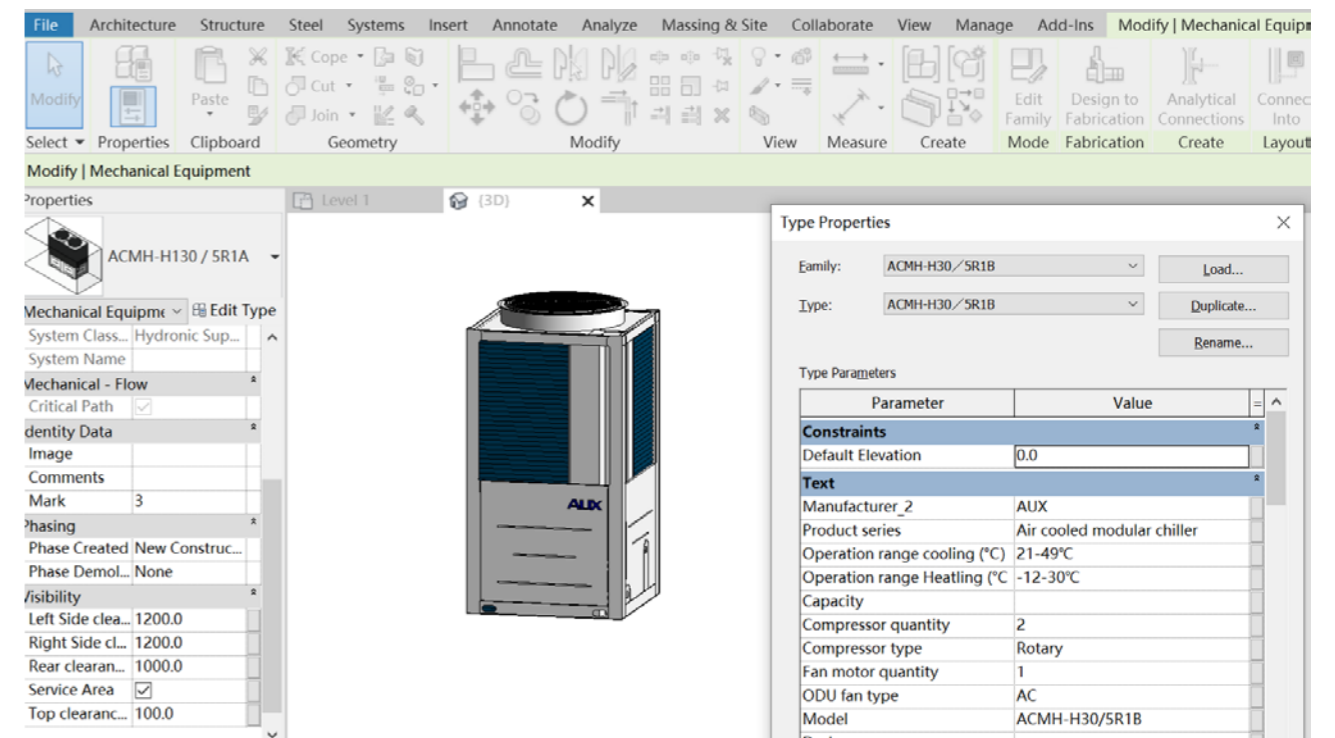
Chiller MODBUS control



Revit Models Series

Revit Models Series

AUX revit is developed to make 3D design (shows Electrical Connector+Pipe Connectors +Produce parameter) of AUX products easier than the previous program. It enables engineers to check 3D images from design stage and prevents possible issues of the installation stage.



Project Reference



VILLA FRESCO

Country: Georgia
City: Tbilisi
Capacity: 1620kW
Equipment: Modular Chiller
Date: 01-2018



Residential Complex

Country: Iran
City: Tehran
Capacity: 770kW
Equipment: Modular Chiller
Date: 05-2017



Heravi Square

Country: Iran
City: Tehran
Capacity: 385kW
Equipment: Modular Chiller
Date: 03-2017



Russia - My History Museum

Country: Russia
City: Makhachkala
Capacity: 1380kW
Equipment: Modular Chiller
Date: 09-2019

Project Reference



Sanatorium

Country: Uzbekistan
City: Tashkent
Capacity: 1300kW
Equipment: Modular Chiller
Date: 10-2020

