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AQUA 2019 General Catalogue CHILLER Commercial A C

AQUA

CHILLER

2019 General Catalogue
AQUA Commercial Air Conditioning

Haier Brand Story

The Internet era is a diverse and unconventional time, where "one size fits all" products and solutions simply aren' t enough. Customers want to be treated as individuals and respected for who they are.
Everyone wants their unique lifestyle acknowledged. That is why Haier listens closely to you in order to gain a genuine understanding of what is going on in your life and what is on your mind. So each of you can get the smart home experience you deserve: be it simple, sophisticated, organized or enjoyable.
As a worldwide industry leader, Haier innovates beyond products and solutions and turns the organization into a wholly connected platform. In doing so, internal and external resources are connected quickly and easily. We believe only by doing so, we can best meet our consumers' expectations in this rapidly evolving world.
Be part of the Haier Network. Create new possibilities.

Haier Global Network

From introduction to absorption, from manufacture to creation, Haier has been accomplishing Chinese people's goal of creating a world-renowned brand step over the past 30 years.Haier boasts 66 trading companies, 10 design R&D Centers,108 manufacturing bases and 24 innovative industrial parks across the world with a global selling network comprised of 143,300 sales outlets spanning more than 100 countries. With more than 73 thousand employees worldwide, Haier has now established a "Three in one" network layout.

Worldwide Network	Overseas	Global
Trading Company	24	66
R&D Center	8	10
Manufactory	54	108
Industry Park	12	24
Sales Network	37683	143330

Haier Global Revenue

Established in 1984, Haier is the world's **No.1** major appliance brand.

Steady growth has been achieved due to Haier's exploration of IoT business models. From the income generated by the conventional economy, Haier is expected to see its 2016 global revenue hit RMB **201.6 billion**. Online transaction volume, which reached RMB **272.7 billion**, was generated on Haier's product online platforms, B2B, B2C socialized online platforms and internet finance platforms, representing a **73%** year-on-year increase.

Haier

The First
Commercial Air Conditioning
Smart Interconnected Factory in the World

Till the end of October 2016, Haier commercial air conditioning smart interconnected factory was officially completed.This is the 8th interconnected factory of Haier, and is the first commercial air conditioning interconnected factory in the world. This factory has the production capacity of 10 types of commercial air conditioning products, takes advantages of the whole process information interconnected system, smart manufacture and smart detection and other technologies, redefining the manufacturing standards of commercial air conditioning industry, to meet the increasing market demand, leading the commercial air conditioning users into the era of personalized customization.

The 8th interconnected factory of Haier

Equiped with 8 final assembly lines and 4 modular areas

Project covers an area of 87,000 m², whose building area is 51,000 m²

Maxium production & testing capability of 4500 tons

Have the production capacity of 10 types of commercial air conditioning products

Overall energy saving reaches to 20%, to create industry benchmark factory

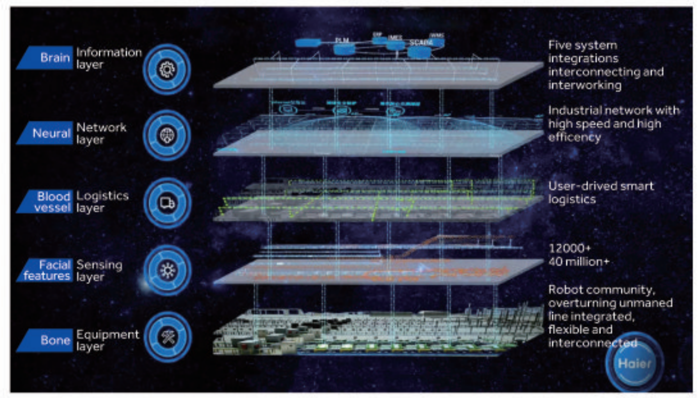
Haier

Redefine manufacturer's standards, bring forth new ideas and lead industry to upgrade

The first large-scale customization interconnected factory

Haier's interconnected factory was born to meet the personalized needs of users.Through the front end of the interconnected factory to collect the fragmentated demand of users, and flexible production is realized through smart manufacturing, which can solve the natural contradiction between mass production and personalized customization.

The first whole-process transparent interconnected factory in the world



The way Haier interconnect factory links to users is the visual production. Haier commercial air conditioning initiatively created the whole-process information interconnected system, by total factor and the end-to-end system to realize mass customization, and finally achieved the seamless, transparent and visualized user experience. Through real-time, accurate data, to meet the visualization demands of the lowest level information from the whole plant and even the global plants.

leading the whole ecosystem big data system in the industry

Haier commercial air conditioning smart interconnected factory is not a concept of a factory, but an ecosystem of multipled inner and outer circles.This ecosystem realizes real-time interconnected of the whole processes for users, they can participate in all processes from the design, manufacture, at the same time make zero distance from the user to the plant. The orders are sent directly to the factory, reducing intermediate links between the production and the order processing, and customized products can be directly delivered to the user.

AQUA

Haier

For 12 years, Haier created the history of Magnetic Bearing Centrifugal Chiller in China, starting the era of oil free

2003

The first magnetic bearing compressor was born in the world

2006

The first true-meaning high temperature Magnetic Bearing Centrifugal Chiller in China was born in Haier

2009

The first magnetic bearing centrifugal water sourse heat pump in China came out in Haier

2011

The first air-cooled magnetic bearing centrifugal chiller in China came out from Haier, whose energy efficiency is over 8% of state level one energy efficiency

2013

The first modular magnetic bearing centrifugal chiller in China appeared on the market, small enough to saving space, applying to renovation projiects

2014

The large cooling capacity of 2,210 tons magnetic bearing centrifugal chiller appeared on the China market.

2015

The first magnetic bearing centrifugal chiller with failing film evaportator in China

2016

Air-cooled magnetic bearing centrifugal chiller with free cooling shocked the China market

CONTENTS

2019 Chiller Line-up

Water-cooled Chiller Line-up

R134a/440-7034kW

AHRI CERTIFIED® www.ahridirectory.org

R134a Water-cooled Magnetic Bearing Centrifugal Chiller

- 50% Energy saving than conventional chiller
- Oil-free inverter technology
- Load sharing technology in multi-compressor system
- Sound pressure level lower to 70dB(A)
- Vibration close to 0
- Cloud service available

R134a/320/400/500kW

AHRI CERTIFIED® www.ahridirectory.org

R134a Modular Water-cooled Magnetic Bearing Centrifugal Chiller

- High efficient falling film evaporator
- Modular design, multi-module connection
- Small footprint, easy to transport
- Convenient assembly
- Save installation time and cost

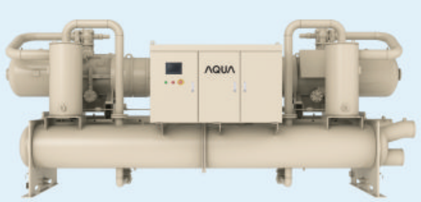
R134a/350-2085kW

AHRI CERTIFIED® www.ahridirectory.org

R134a Water-cooled Screw Chiller (High Efficiency)

- High efficient twin-screw compressor
- Flooded type evaporator
- Sub cooling design
- PLC control
- EXV design

R134a/335-2085kW



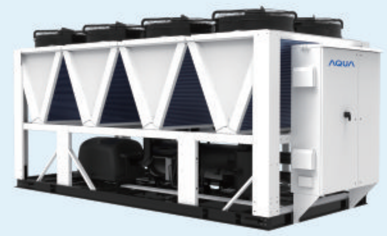
AHRI CERTIFIED® www.ahridirectory.org

R134a Water-cooled Screw Chiller (Normal Efficiency)

- Flooded type evaporator
- Sub cooling design
- Water flow switch as standard

Air-cooled Chiller Line-up

R134a/315-1760kW



AHRI CERTIFIED® www.ahridirectory.org

R134a Air-cooled Magnetic Bearing Centrifugal Chiller

- High efficiency : IPLV up to 6.3
- Oil-free inverter technology
- Low noise and less vibration
- Cloud service available
- 2A starting current
- longevity : 30+ years
- Electric panel IP56

R410A/60-960kW

NEW

R410A Inverter Modular Chiller

- DC inverter rotary compressors
- Up to 16 units can be combined into one system inorder to reach the required capacity demand
- Refrigerant cooling driver module technology
- Modbus function
- The unit can work at 53℃ ambient temperature in cooling mode

R410A/65-1040kW

NEW

R410A Full Heat Recovery Modular Chiller

- High efficiency, EER 3.1
- Full heat recovery function;
- Five operation modes: cooling, heating, hot water, winter smart mode, summer smart mode
- Free combination with other series of modular chiller

R410A/30-2080kW

R410A Modular Chiller(fixed Speed)

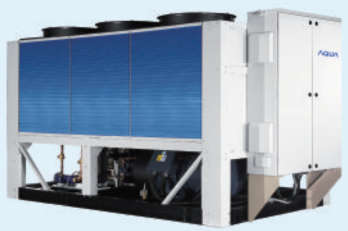
- Compact design, small floor area, only 1.6m²(65kW), 3.2m²(100/ 130 kW)
- Wide operation temperature range, realizing 50°C in cooling, -15°C in heating
- Patented shell & tube evaporator, improving efficiency
- No independent power required for controller, convenient installation

⊙Total 4 basic modules: 30/65/100/130kW
⊙Module flexible combination, Max with 16 modules

2019 Chiller Line-up

Air-cooled Chiller Line-up

R134a/360-2480kW

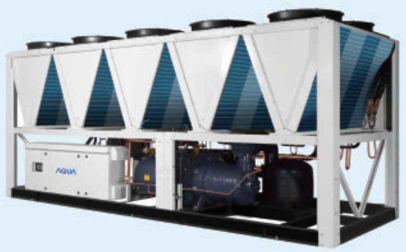


R134a Air-cooled Screw Chiller (Cooling Only)

- High efficient twin-screw compressor
- Falling film evaporator
- Modular design, easy to design and transport
- Wide operation temperature range

AHRI CERTIFIED® www.ahridirectory.org

R134a/360-2400kW



R134a Air-cooled Screw Chiller (Heat Pump)

- High efficient twin-screw compressor
- Sub cooling design
- Modular design, easy to design and transport
- Wide operation temperature range

Fan Coil & AHU Line-up

2.4-13.2kW 340-2380 m³/h

AHRI CERTIFIED® www.ahridirectory.org

Ceiling Concealed Fan Coil

- 12/30/50Pa three models for every capacity
- Steel blower and scroll shell
- Take down the filter with no screwing
- Return air box & filter optional
- Enlarged drain pan optional

3.6-12.6kW 400-2380 m³/h

AHRI CERTIFIED® www.ahridirectory.org

Four Way Hydro Cassette Fan Coil

- Unique round way air outlet, no blind spot
- Hidden LCD display
- 183mm Industry leading super slim height
- Independent air flow control
- Convenient clips for easy installation

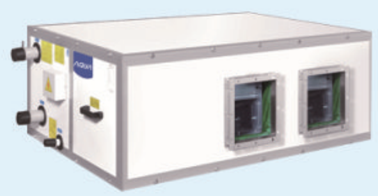
2.7-3.5kW 340-510 m³/h

AHRI CERTIFIED® www.ahridirectory.org

Compact Hydro Cassette Fan Coil

- Easy to install;
- The unit dimension is 570mm×570mm×260mm to avoid the breakage for ceiling during installation

2000-15000m³/h



Ceiling Mounted Air Handling Unit

- Easy installation
- Draught fan in high quality brings more peace
- Patented box structure, with more excellent performance
- The unit materials are all conformed to the requirements of the EU RoHS environmental protection certification.

Three Way Valve

Model: 3VFCE
- Three way valve for ceiling concealed fan coil

Model: 3VFCB
- Three way valve for four-way hydro cassette

MAGNETIC BEARING CENTRIFUGAL CHILLER

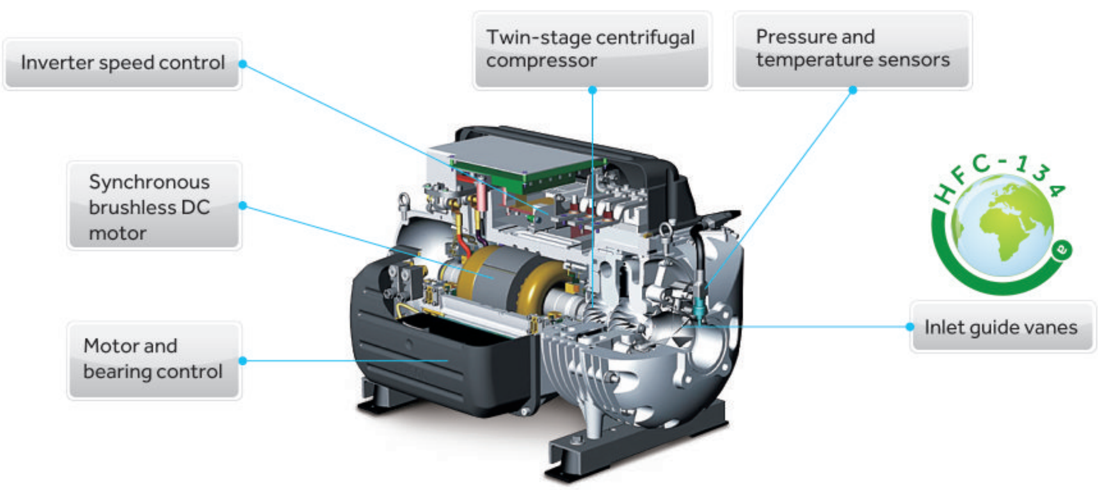
KEY FEATURE

Advanced Technology

Compressor technology

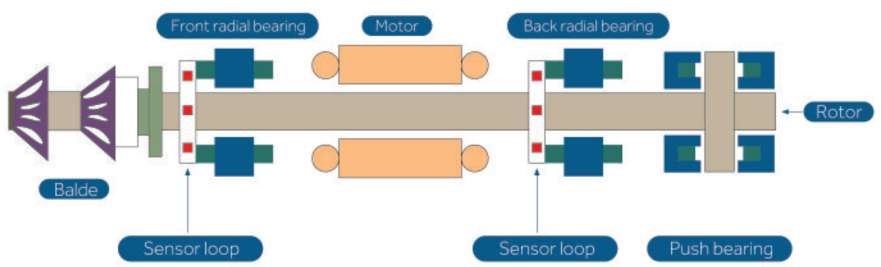
- Turbocor compressor technology

The chillers either water-cooled or air-cooled, are designed to optimize the performance of the high efficient Danfoss Turbocor oil-free centrifugal compressor technology.



- Magnetic bearing technology

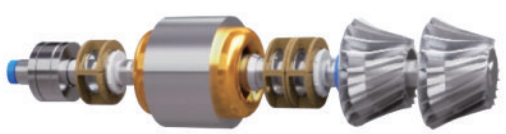
Magnetic bearing and orientation sensor: Two radial bearings and one axial bearing compose the digital magnetic bearing system. The movement parts are made of permanent magnet and electric magnet will suspend on the magnet and move without friction. The orientation sensor will confirm the precise position of the rotor at max.6,000,000 times per minute.



- Permanent-magnet motor and Landing bearing

The compressor motor is magnetic permanently, which is supplied voltage by PWM (pulse width management) to realize variable speed running. The landing bearing will go upward before the unit starts up, which will keep a certain distance automatically and ensure no friction.

The radial bearing is to bear the axis after the compressor is powered down, to avoid the touch between the axis and the other metal surface.



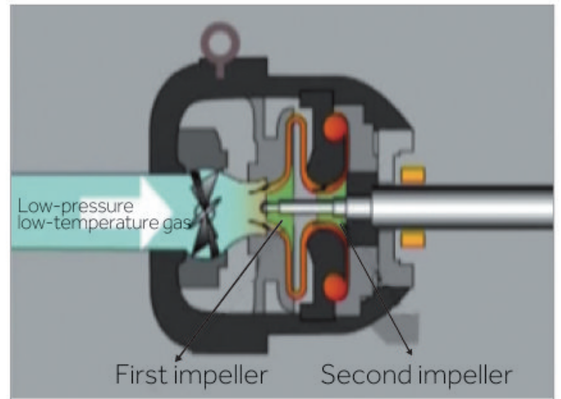
Advanced Technology

Compressor Technology

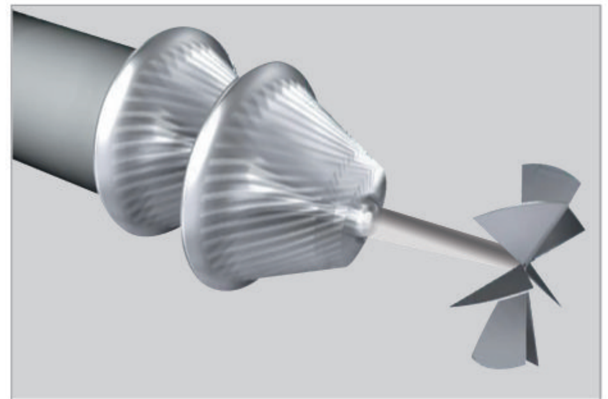
- Inverter driving

The inverter centrifugal compressor adopts the integrated driving module. on the condition of condensing temperature decreasing or load reducing, lower the compressor revolution, then optimum the compressor energy efficiency with 5%~100% of rated load.

Optional: digital load balancing valve, compressor even can work normally even when the load almost closes to 0.



Two stage compression
load adaptive capacity is better

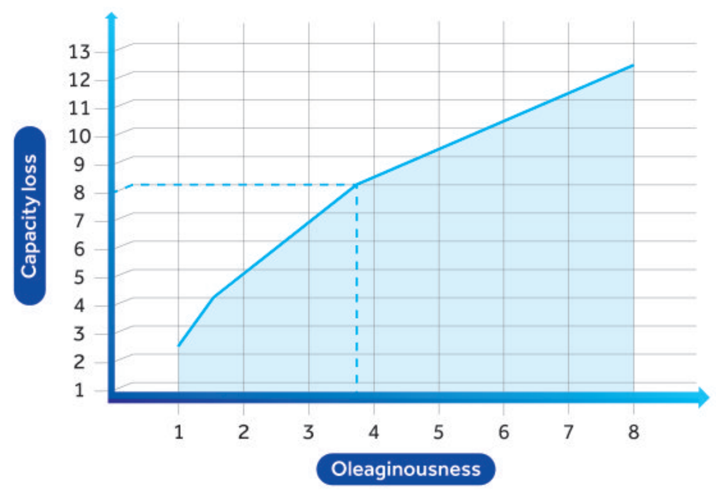


Intelligent dynamical incerter
save more energy

- Frictionless system

The movement parts of magnetic bearing system centrifugal compressor are composed of two radial magnetic bearings and one axial magnetic bearing. So the digital magnetic bearing system will be suspended when compressor is running. The movement parts do not need oil, which avoid that oil film in the heat exchanger lays on the pipe to reduce the heat exchanging efficiency. Thus it will ensure the product has the consistent excellent performance in its operation period.

The oil content of old type chiller is 9% on average, which will reduce the efficiency up to 15% to 20%. AQUA's magnetic bearing system inverter centrifugal chiller can enhance efficiency over 15% because of oil-free lubrication system.

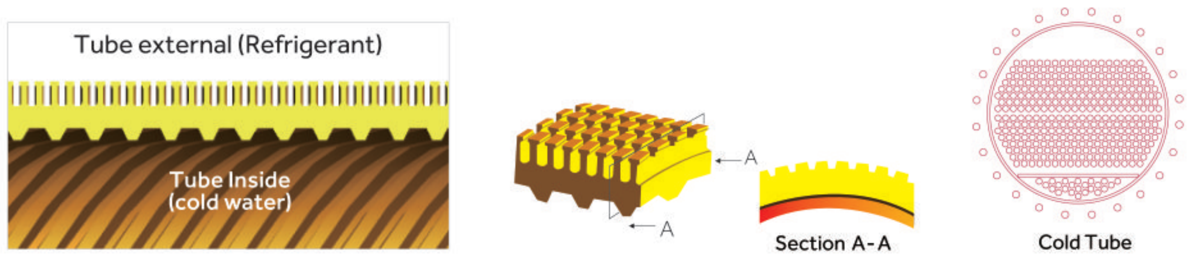


KEY FEATURE

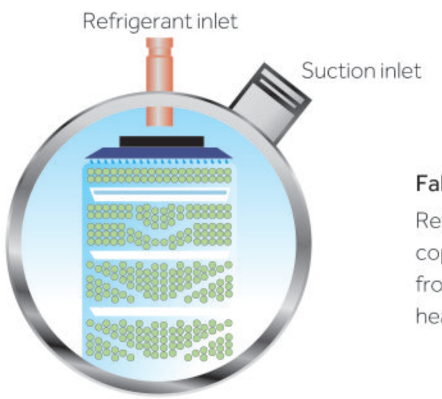
Advanced Technology

High efficiency heat exchanger

The water-cooled and air-cooled magnetic bearing centrifugal chillers adopt shell and tube flooded evaporator and shell and tube condenser. The heat exchange tube adopts special layout make refrigerant flow improvement in the evaporator and the condenser to increase efficiency.



The modular water-cooled magnetic bearing centrifugal chillers adopt falling film evaporator to reduce the refrigerant charge by 40% and increase the heat exchange efficiency by 10%.

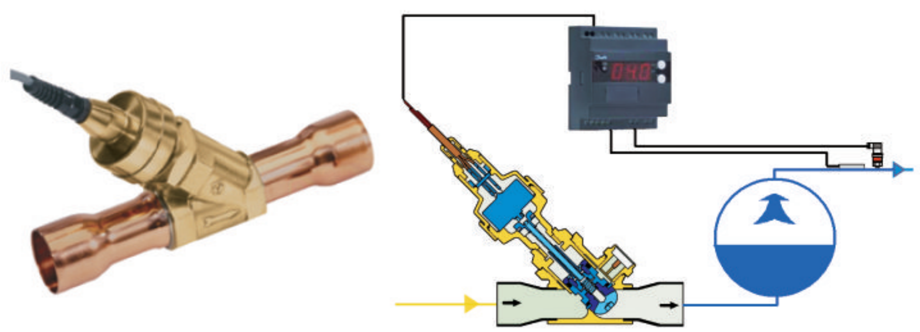


Fall film type

Refrigerant liquid film lays on copper evenly, air is separated from liquid perfectly to increase heat exchange efficiency greatly.

EXV design

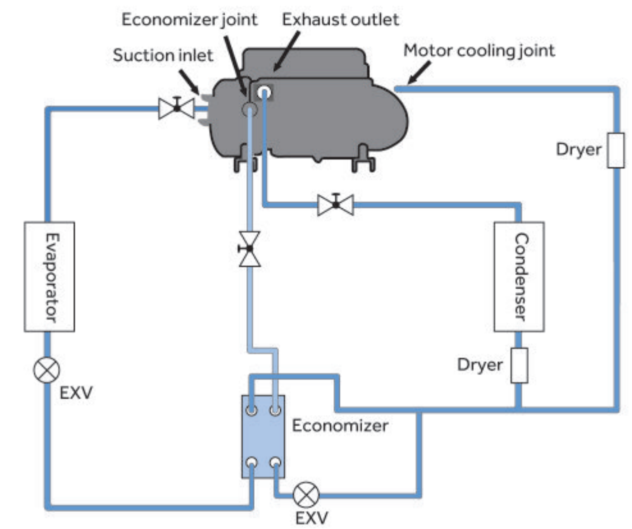
The unit adopts electronic expansion valve to control the volume of liquid refrigerant spraying into the evaporator precisely. By controlling the stepping motor operation due to the different load, the special electronic expansion valve driving module can adjust open degree of valve to control refrigerant flow volume, reaching the optimum efficiency.



Advanced Technology

Economizer

The chillers are added with the economizer, which can improve degree of supercooling greatly, increasing efficiency by 10%.



Intelligent control

- Cloud services center

AQUA magnetic bearing centrifugal chiller with built-in smart network communication module, just by an Internet cable Internet the user can upload unit operation parameters, the fault information to the client end and AQUA smart cloud services system. Enjoy the 24-hour butler service provided by Haier's smart cloud service system.

Long-distance detection: detect each parameters of unit operation on real time, and accumulate the data and make it in diagram. Improve the work efficiency of checking and recording personnel in the air-conditioner room, reduce the workload of the management personnel in the air-conditioner room, to achieve the goal of simplying air-conditioner room or unattended air-conditioner room.

Default warning: the system can monitor the unit operation conditions constantly, and send alarming informations to the cloud services system or mobile terminals with relevant authorities, notify the administrative staff of the air-conditioner room to quickly check and maintain it. Avoid the failure of the unit and reduce the failure rate of the unit.

Energy saving service: record and analyze the energy consumption data of unit and system, to provide optimized energy saving strategies and using methods for users.

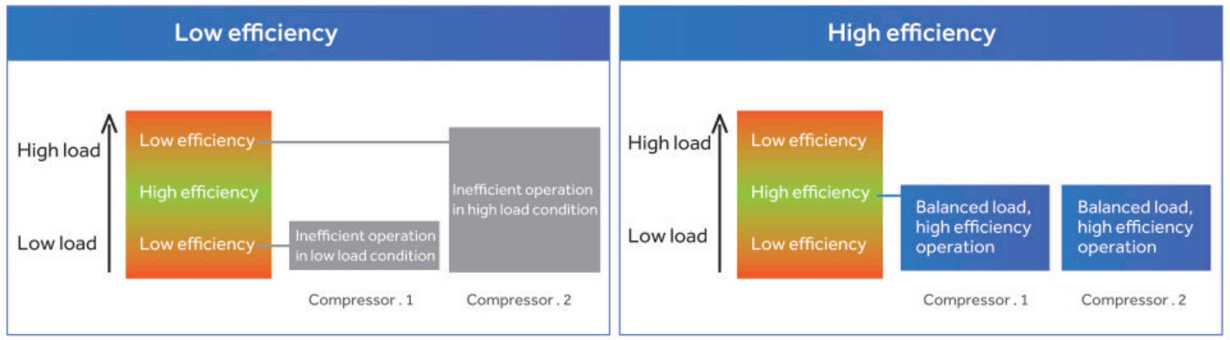
KEY FEATURE

Advanced Technology

Intelligent control

- Load sharing strategies in multi-compressor refrigeration system

The control technology of load sharing strategies in multi-compressor refrigeration system can make every compressor operate in equilibrium load value, by which the unit can keep the optimal operation performance.



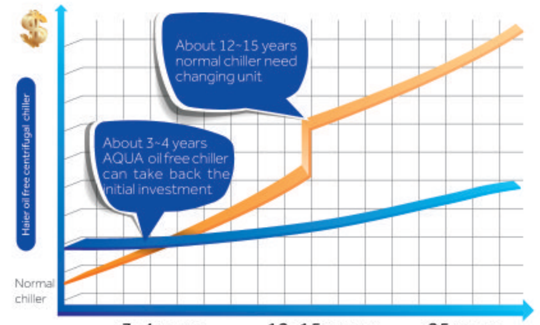
High Efficiency

The unit adopts the turbo inverter compressor technology and frictionless technology, which will enhance the energy efficiency greatly. Water cooled series IPLV (integrated part-load value AHRI standards) can be 11.98 (Air-cooled series IPLV is 6.0). Comparing with conventional chiller, AQUA magnetic bearing centrifugal chiller IPLV is 50% higher.

Low Cost

Low operation cost

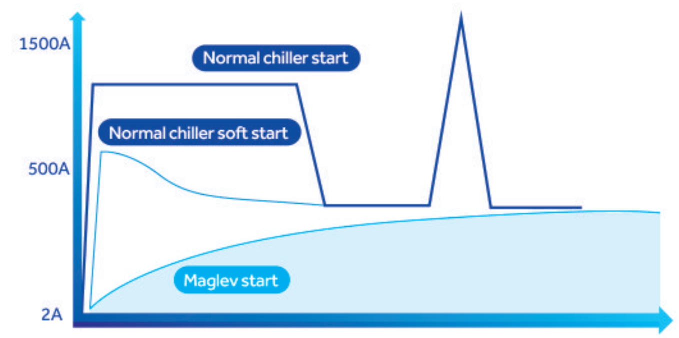
Comparing with conventional chillers, AQUA magnetic bearing centrifugal chillers can save cost up to 40%~50%.



About 3~4 years Haier Magnetic bearing chiller can take back the initial investment.

Low installation cost

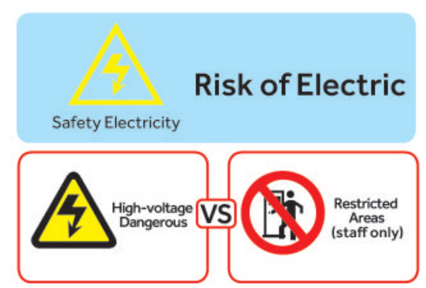
Because of magnetic bearing system technology, when the system starts up, only 2A current is necessary to suspend the axis, low starting torque, which results in low interference for electricity net. The conventional chiller start current can reach 1500A. Because the unit adopts low start current, the installed don't need soft starter which will save US 80,000 costs.



The unit adopts 380V power supply, then 10KV power supply is not required. It will be much safer since the examination and approval process are not required either.

Without approval procedure

More approval procedures

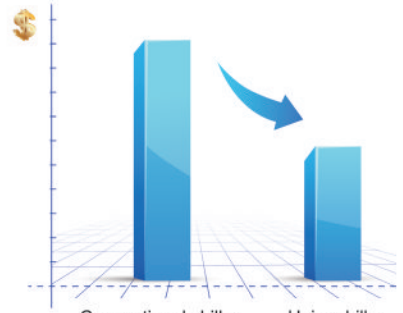


KEY FEATURE

Low Cost

Low maintenance cost

The unit adopts no oil in the chiller means no oil contamination over time, so design efficiency is maintained effortlessly. This design can save as much as US 60,000 maintenance costs during the life cycle.

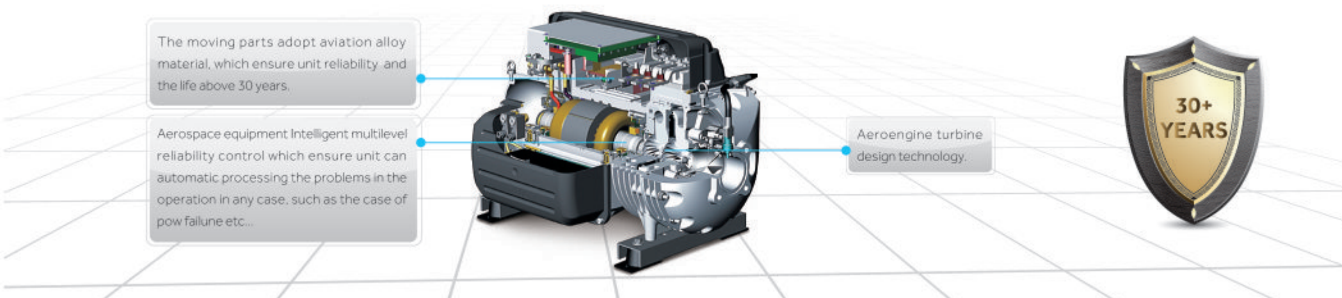


High Reliability

Longevity 30+ years

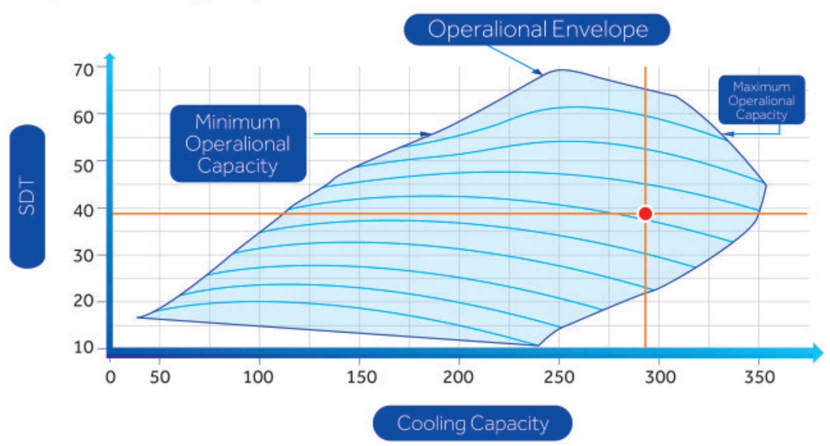
Compressor is made from the aerial class aluminum mold and the high strength thermal plastic electronic case, which can keep the compressor long-time and high efficient running.

Aerospace materials and technology, ensure 30 years reliable efficient operation.



Compressor safe operation

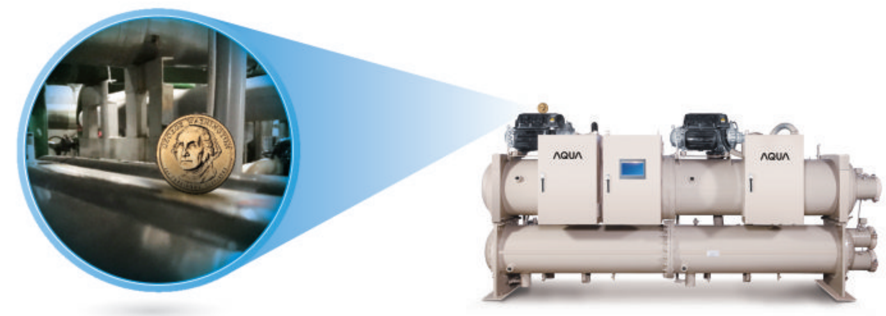
Compressor control module will supply the performance curves and according to the curves, adjust the running speed in time to ensure the compressor running safely.



Comfort

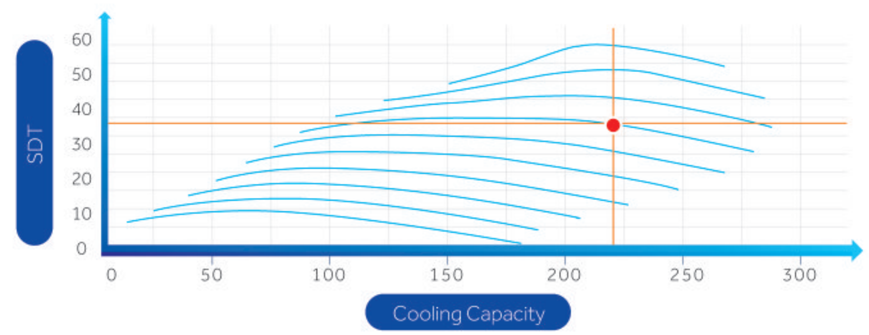
Low noise and less vibration

Because of fully frictionless operation, the device vibration is close to zero. So AQUA magnetic bearing centrifugal chiller doesn't need the anti-vibration parts and water-cooled chiller's running noise is lower than 75dB(A), while the conventional chiller is higher than 85dB(A).



Flexible capacity adjustment

When condensing temperature goes down or the heat load is decreased, the compressor speed will be slower. The system controls the refrigerant output from 10%~100% of the rated load freely, optimizing the compressor efficiency.



Convenience

Friendly operation screen

Big LCD touch screen. Chinese and English are selectable

Calendar / Fault inquires / Water system equipment interlocking / Remote control / Unit operation parameters quick inquiry

KEY FEATURE

Renovation Solution

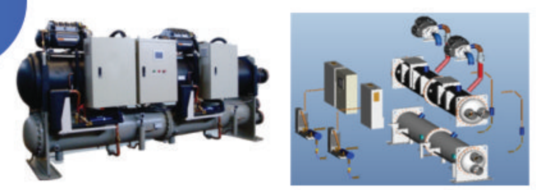
Dismantling the wall

Long renovation period.
The normal operating of the building will be affected.
The large-scale equipment is required, which needs high cost.

Conventional solution

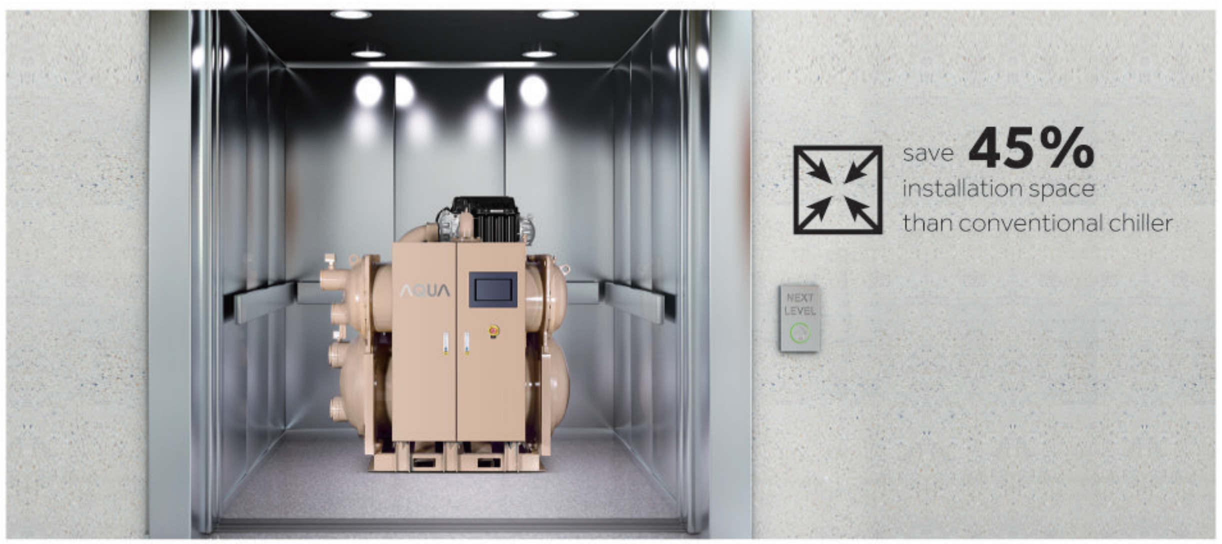
Disassembling the unit

The period is long.
The reliability of the unit is poor.
The manufacturer needs to dispatch professionals for disassembly and assembly on the site.



Based on the above, the market needs a product with high efficiency, small size and light weight, which can be easily transformed without dismantling the wall. Haier modular water-cooled magnetic bearing centrifugal chillers were born at the right moment.

- **High efficiency**
  With the adoption of the turbo inverter compressor technology, Haier modular magnetic bearing centrifugal chiller increases efficiency by 50% compared to the conventional unit.
- **Environmentally friendly**
  The units adopt falling film evaporator to reduce the refrigerant charge by 40% and increase the heat exchange efficiency by 10%.
- **Small footprint, easy to transport**
  The modular magnetic bearing centrifugal chiller is compact , which can save 45% installation space than conventional chiller. So it is easy to transport by the elevator.



Renovation Solution

- **Convenient assembly**
  The specialized crane and other large-scale equipment are not needed for the disassembly after unit arrives at the work site. Only the forklift is needed to save installation time and cost.

Water-cooled Magnetic Bearing Centrifugal Chiller

Water cooled/Cooling only

Cooling capacity range from 440kW up to 7034kW

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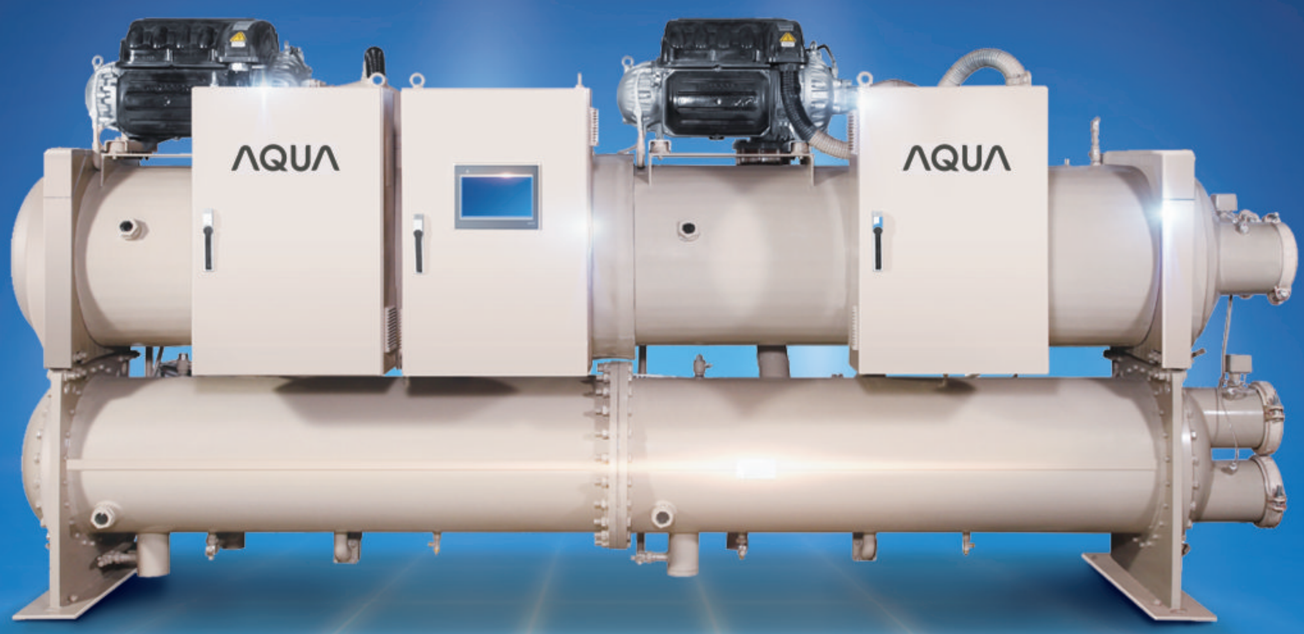


* Picture is based on double compressor model

Options/Accessories

Accessories		Standard	Optional
Power supply		3N~/380V/50Hz	3N~/380V/60Hz; 3N~/400V/50Hz; 3N~/460V/60Hz
Communication protocol		Cloud service	Modbus/BACnet
Active power filter		X	√
Surge suppressors		X	√
Economizer	≤800RT	√	/
	>800RT	X	√
Water inlet/outlet connection type	≤800RT	Victaulic	Flange
	>800RT	Flange	/
Thermal insulation thickness		30mm	25mm/40mm
Water side working pressure		1.0Mpa	1.6Mpa/2.5Mpa
ASME pressure vessel		X	√
Chilled water flowmeter		X	√
Automatic online rubber ball cleaning device		X	√
Channel steel base		X	√
Refrigeration cycle system	≤800RT	Modular refrigeration cycle system	Incorporative refrigeration cycle system
	>800RT	Incorporative refrigeration cycle system	/

Specification

MODEL			CC0440PWNI	CC0530PWNI	CC0740PWNI
Cooling capacity		Ton	125	150	205
		kW	440	528	721
Power input		kW	74.7	87.9	121.0
COP		kW/kW	5.89	6.01	5.96
		kW/Ton	0.598	0.586	0.590
Starting current		A	2	2	2
Max. running current		A	178	180	225
Max. power input		kW	109	110	138
Safe protection		/	High/low pressure protection, safety protection, short of water relay protection, anti-freezed protection, motor overload, phase sequence and lack of phase protection		
Compressor	Type	/	Magnetic bearing compressor		
	Starting mode	/	Soft start		
Power supply			3N~/380V/50Hz		
Refrigerant throttle type			Electronic expansion valves		
Capacity control			10%~100%		
Controller type			PLC control		
Refrigerant	Type		R134a		
	Charge	kg	200	210	250
Evaporator	Type		Flooded type		
	Water inlet/outlet temp.		12°C/7°C		
	Inlet/outlet pipe	DN	150	150	150
	Rated water flow	m³/h	76	91	124
	Water dirt coefficient	m².°C/kW	0.0176		
	Standard pressure	MPa	1		
	Pass		4	4	3
	Water side resistance	kPa	83	80	70
Condenser	Type		Shell&tube heat exchanger		
	Water inlet/outlet temp.		30°C/35°C		
	Inlet/outlet pipe	DN	150	150	150
	Rated water flow	m³/h	89	106	145
	Water dirt coefficient	m².°C/kW	0.044		
	Standard pressure	MPa	1		
	Pass		4	4	3
	Water side resistance	kPa	77	75	62
External dimension	Unit length	mm	2500	2500	2900
	Unit width	mm	1200	1200	1200
	Unit height	mm	2100	2100	2250
Weight	Net weight	Kg	2370	2480	2550
	Gross weight	Kg	2410	2520	2590
	Operation weight	Kg	2670	2830	2900

MODEL			CC0880PWNI	CC1100PWNI
Cooling capacity		Ton	250	303
		kW	879	1066
Power input		kW	146.5	174.7
COP		kW/kW	6.00	6.10
		kW/Ton	0.586	0.576
Starting current		A	2	2
Max. running current		A	356	360
Max. power input		kW	218	220
Safe protection		/	High/low pressure protection, safety protection, short of water relay protection, anti-freezed protection, motor overload, phase sequence and lack of phase protection	
Compressor	Type	/	Magnetic bearing compressor	
	Starting mode	/	Soft start	
Power supply			3N~/380V/50Hz	
Refrigerant throttle type			Electronic expansion valves	
Capacity control			10%~100%	
Controller type			PLC control	
Refrigerant	Type		R134a	
	Charge	kg	400	420
Evaporator	Type		Flooded type	
	Water inlet/outlet temp.		12°C/7°C	
	Inlet/outlet pipe	DN	200	200
	Rated water flow	m³/h	151	183
	Water dirt coefficient	m².°C/kW	0.0176	
	Standard pressure	MPa	1	
	Pass		2	2
	Water side resistance	kPa	75	77
Condenser	Type		Shell&tube heat exchanger	
	Water inlet/outlet temp.		30°C/35°C	
	Inlet/outlet pipe	DN	200	200
	Rated water flow	m³/h	176	213
	Water dirt coefficient	m².°C/kW	0.044	
	Standard pressure	MPa	1	
	Pass		2	2
	Water side resistance	kPa	72	72
External dimension	Unit length	mm	4400	4400
	Unit width	mm	1200	1200
	Unit height	mm	2100	2100
Weight	Net weight	Kg	3910	4190
	Gross weight	Kg	3960	4240
	Operation weight	Kg	4410	4740

Note:
1. Constant cooling water inlet temp.
2. Above parameters are based on the standard products;
3. Above products standard pressure is 1.0Mpa, Contact with haier technology engineer, if you need the pressure higher than 1.0Mpa.
4. Except above standard models, AQUA also can be customized products according to customer's requirements;
5. Due to our policy of innovation some specifications maybe changed without notification;
6. Model CC1330PWNI-CC2810PWNI is split type chiller, the installer neen to combine the chiller on site.
7. CC1330PWNI, CC1400PWNI, CC1580PWNI can be customizenit with 2 passes.

Water-cooled
Magnetic Bearing Centrifugal Chiller

MODEL			CC1330PWNI	CC1400PWNI	CC1580PWNI	CC1760PWNI
Cooling capacity		Ton	378	400	450	500
		kW	1329	1407	1583	1759
Power input		kW	217.6	230.7	259.5	287.9
COP		kW/kW	6.11	6.10	6.10	6.11
		kW/Ton	0.576	0.577	0.577	0.576
Starting current		A	2	2	2	2
Max. running current		A	534	534	540	712
Max. power input		kW	327	327	331	436
Safe protection		/	High/low pressure protection, safety protection, short of water relay protection, anti-freezed protection, motor overload, phase sequence and lack of phase protection			
Compressor	Type	/	Magnetic bearing compressor			
	Starting mode	/	Soft start			
Power supply			3N~/380V/50Hz			
Refrigerant throttle type			Electronic expansion valves			
Capacity control			10%~100%			
Controller type			PLC control			
Refrigerant	Type		R134a			
	Charge	kg	600	630	630	800
Evaporator	Type		Flooded type			
	Water inlet/outlet temp.		12°C/7°C			
	Inlet/outlet pipe	DN	250	250	250	250
	Rated water flow	m³/h	229	242	272	303
	Water dirt coefficient	m².°C/kW	0.0176			
	Standard pressure	MPa	1			
	Pass		1	1	1	2
	Water side resistance	kPa	36	33	35	75
Condenser	Type		Shell&tube heat exchanger			
	Water inlet/outlet temp.		30°C/35°C			
	Inlet/outlet pipe	DN	250	250	250	250
	Rated water flow	m³/h	266	282	317	352
	Water dirt coefficient	m².°C/kW	0.044			
	Standard pressure	MPa	1			
	Pass		1	1	1	2
	Water side resistance	kPa	33	33	33	72
External dimension	Unit length	mm	6520	6520	6520	4800
	Unit width	mm	1200	1200	1200	2250
	Unit height	mm	2100	2100	2100	2250
Weight	Net weight	Kg	5130	5680	6260	8200
	Gross weight	Kg	5200	5750	6330	8280
	Operation weight	Kg	5880	6480	7060	9200

MODEL			CC1930PWNI	CC2110PWNI	CC2640PWNI	CC2810PWNI
Cooling capacity		Ton	550	600	750	800
		kW	1934	2110	2640	2814
Power input		kW	316.5	344.2	431.4	457.6
COP		kW/kW	6.11	6.13	6.12	6.15
		kW/Ton	0.576	0.574	0.575	0.572
Starting current		A	2	2	2	2
Max. running current		A	720	720	810	900
Max. power input		kW	441	441	496	551
Safe protection		/	High/low pressure protection, safety protection, short of water relay protection, anti-freezed protection, motor overload, phase sequence and lack of phase protection			
Compressor	Type	/	Magnetic bearing compressor			
	Starting mode	/	Soft start			
Power supply			3N~/380V/50Hz			
Refrigerant throttle type			Electronic expansion valves			
Capacity control			10%~100%			
Controller type			PLC control			
Refrigerant	Type		R134a			
	Charge	kg	820	840	1050	1100
Evaporator	Type		Flooded type			
	Water inlet/outlet temp.		12°C/7°C			
	Inlet/outlet pipe	DN	250	250	300	300
	Rated water flow	m³/h	333	363	454	484
	Water dirt coefficient	m².°C/kW	0.0176			
	Standard pressure	MPa	1			
	Pass		2	2	2	2
	Water side resistance	kPa	75	73	99	99
Condenser	Type		Shell&tube heat exchanger			
	Water inlet/outlet temp.		30°C/35°C			
	Inlet/outlet pipe	DN	250	250	300	300
	Rated water flow	m³/h	387	422	528	563
	Water dirt coefficient	m².°C/kW	0.044			
	Standard pressure	MPa	1			
	Pass		2	2	2	2
	Water side resistance	kPa	72	68	99	95
External dimension	Unit length	mm	4800	4800	5050	5350
	Unit width	mm	2250	2250	2250	2250
	Unit height	mm	2250	2250	2250	2250
Weight	Net weight	Kg	8300	8350	11150	11350
	Gross weight	Kg	8380	8430	11300	11500
	Operation weight	Kg	9400	9450	12350	12650

Note: 1. Constant cooling water inlet temp.
2. Above parameters are based on the standard products;
3. Above products standard pressure is 1.0Mpa. Contact with haier technology engineer, if you need the pressure higher than 1.0Mpa.
4. Except above standard models, haier also can be customized products according to customer's requirements;
5. Due to our policy of innovation some specifications maybe changed without notification;
6. Model CC1330PWNI-CC2810PWNI is split type chiller, the installer neen to combine the chiller on site.
7. CC1330PWNI, CC1400PWNI, CC1580PWNI can be customizenit with 2 passes.

Specification

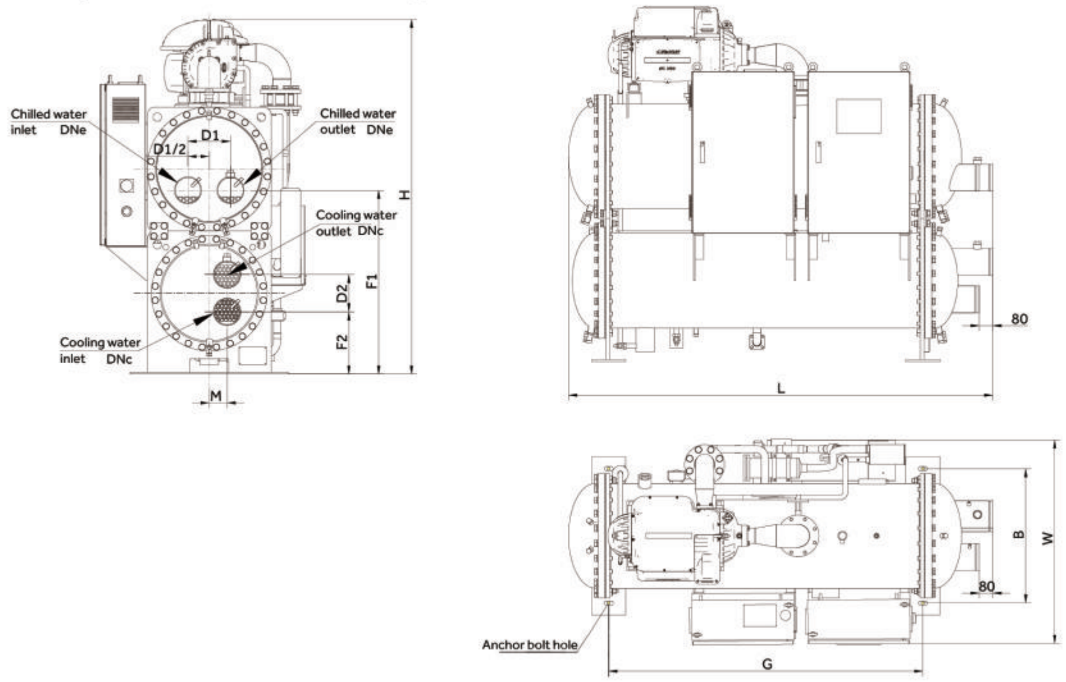
MODEL			CC3170PWNI	CC3520PWNI	CC3870PWNI	CC4220PWNI
Cooling capacity		Ton	900	1000	1100	1200
		kW	3165	3517	3871	4220
Power input		kW	518	571.9	631.5	689.5
COP		kW/kW	6.11	6.15	6.13	6.12
		kW/Ton	0.576	0.572	0.574	0.575
Starting current		A	2	2	2	2
Max. running current		A	1080	1125	1260	1440
Max. power input		kW	661	689	771	881
Safe protection		/	High/low pressure protection, safety protection, short of water relay protection, anti-freezed protection, motor overload, phase sequence and lack of phase protection			
Compressor	Type	/	Magnetic bearing compressor			
	Starting mode	/	Soft start			
Power supply			3N~/380V/50Hz			
Refrigerant throttle type			Electronic expansion valves			
Capacity control			10%~100%			
Controller type			PLC control			
Refrigerant	Type		R134a			
	Charge	kg	1200	1250	1400	1600
Evaporator	Type		Flooded type			
	Water inlet/outlet temp.		12°C/7°C			
	Inlet/outlet pipe	DN	350	350	350	350
	Rated water flow	m³/h	544	605	666	726
	Water dirt coefficient	m².°C/kW	0.0176			
	Standard pressure	MPa	1			
	Pass		2	2	2	2
	Water side resistance	kPa	55	58	85	82
Condenser	Type		Shell&tube heat exchanger			
	Water inlet/outlet temp.		30°C/35°C			
	Inlet/outlet pipe	DN	350	350	350	350
	Rated water flow	m³/h	634	703	774	844
	Water dirt coefficient	m².°C/kW	0.044			
	Standard pressure	MPa	1			
	Pass		2	2	2	2
	Water side resistance	kPa	58	65	96	87
External dimension	Unit length	mm	4300	4300	5100	5100
	Unit width	mm	3200	3200	3200	3200
	Unit height	mm	2550	2550	2550	2550
Weight	Net weight	Kg	11950	13500	14550	15350
	Gross weight	Kg	12100	13650	14700	15500
	Operation weight	Kg	15450	17000	18050	19350

MODEL			CC5280PWNI	CC6330PWNI	CC7030PWNI
Cooling capacity		Ton	1500	1800	2000
		kW	5276	6330	7034
Power input		kW	858	1029	1139
COP		kW/kW	6.15	6.15	6.18
		kW/Ton	0.572	0.572	0.569
Starting current		A	2	2	2
Max. running current		A	1800	2025	2250
Max. power input		kW	1102	1239	1377
Safe protection		/	High/low pressure protection, safety protection, short of water relay protection, anti-freezed protection, motor overload, phase sequence and lack of phase protection		
Compressor	Type	/	Magnetic bearing compressor		
	Starting mode	/	Soft start		
Power supply			3N~/380V/50Hz		
Refrigerant throttle type			Electronic expansion valves		
Capacity control			10%~100%		
Controller type			PLC control		
Refrigerant	Type		R134a		
	Charge	kg	1900	2400	2500
Evaporator	Type		Flooded type		
	Water inlet/outlet temp.		12°C/7°C		
	Inlet/outlet pipe	DN	400	450	450
	Rated water flow	m³/h	907	1089	1210
	Water dirt coefficient	m².°C/kW	0.0176		
	Standard pressure	MPa	1		
	Pass		2	2	2
	Water side resistance	kPa	95	93	95
Condenser	Type		Shell&tube heat exchanger		
	Water inlet/outlet temp.		30°C/35°C		
	Inlet/outlet pipe	DN	400	450	450
	Rated water flow	m³/h	1055	1266	1406
	Water dirt coefficient	m².°C/kW	0.044		
	Standard pressure	MPa	1		
	Pass		2	2	2
	Water side resistance	kPa	96	96	98
External dimension	Unit length	mm	6600	6600	6600
	Unit width	mm	3800	3800	3800
	Unit height	mm	2700	2700	2700
Weight	Net weight	Kg	19110	25310	26310
	Gross weight	Kg	19260	25460	26460
	Operation weight	Kg	22610	29810	30810

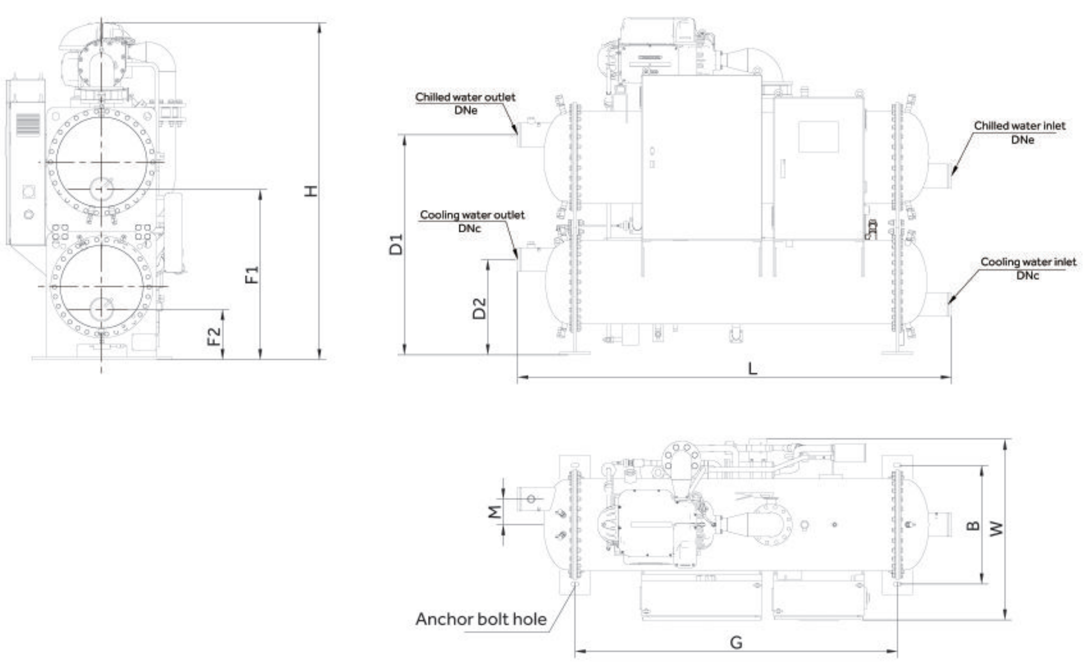
Note: 1. Constant cooling water inlet temp.
2. Above parameters are based on the standard products;
3. Above products standard pressure is 1.0Mpa. Contact with haier technology engineer, if you need the pressure higher than 1.0Mpa.
4. Except above standard models, haier also can be customized products according to customer's requirements;
5. Due to our policy of innovation some specifications maybe changed without notification;
6. Model CC1330PWNI-CC2810PWNI is split type chiller, the installer neen to combine the chiller on site.
7. CC1330PWNI, CC1400PWNI, CC1580PWNI can be customizenit with 2 passes.

Unit Dimension Diagram

Single compressor unit dimension diagram



CODE / MODEL	External dimensions mm			Installation dimensions mm		Nozzle dimensions mm						
	L	W	H	B	G	D1	D2	F1	F2	M	DNe	DNc
CC0440PWNI	2500	1200	2100	790	1846	250	220	1082	367	105	DN150	DN150
CC0530PWNI	2500	1200	2100	790	1846	250	220	1082	367	105	DN150	DN150

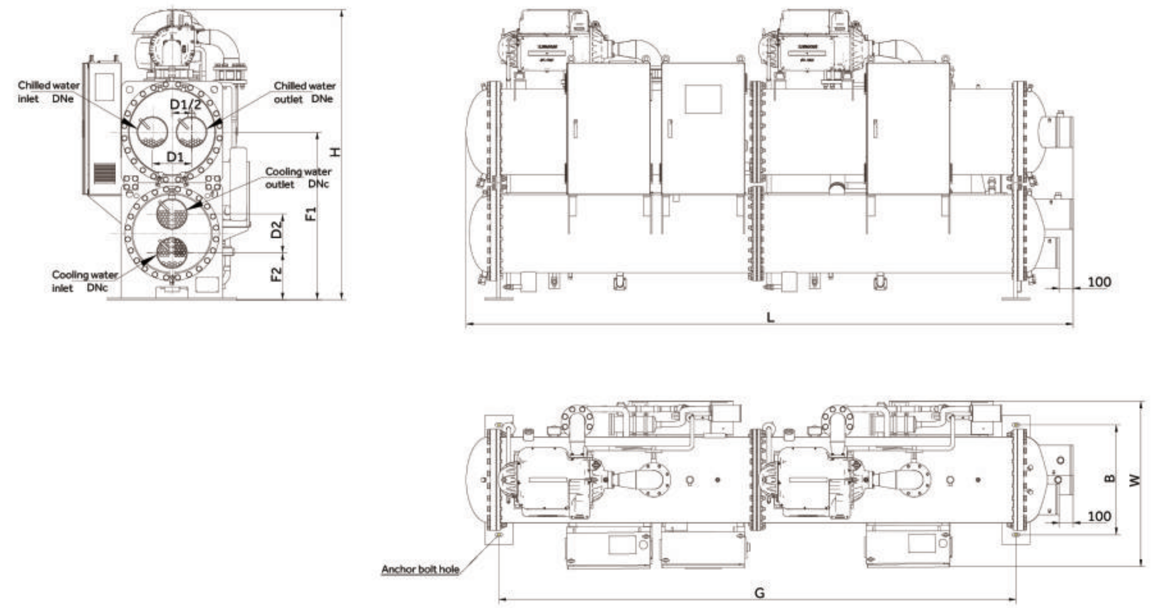


CODE / MODEL	External dimensions mm			Installation dimensions mm		Nozzle dimensions mm						
	L	W	H	B	G	D1	D2	F1	F2	F2	DNe	DNc
CC0740PWNI	2900	1200	2250	790	2146	1465	635	1135	335	170	DN150	DN150

Unit Dimension Diagram

Twin-compressor series connection unit dimension diagram

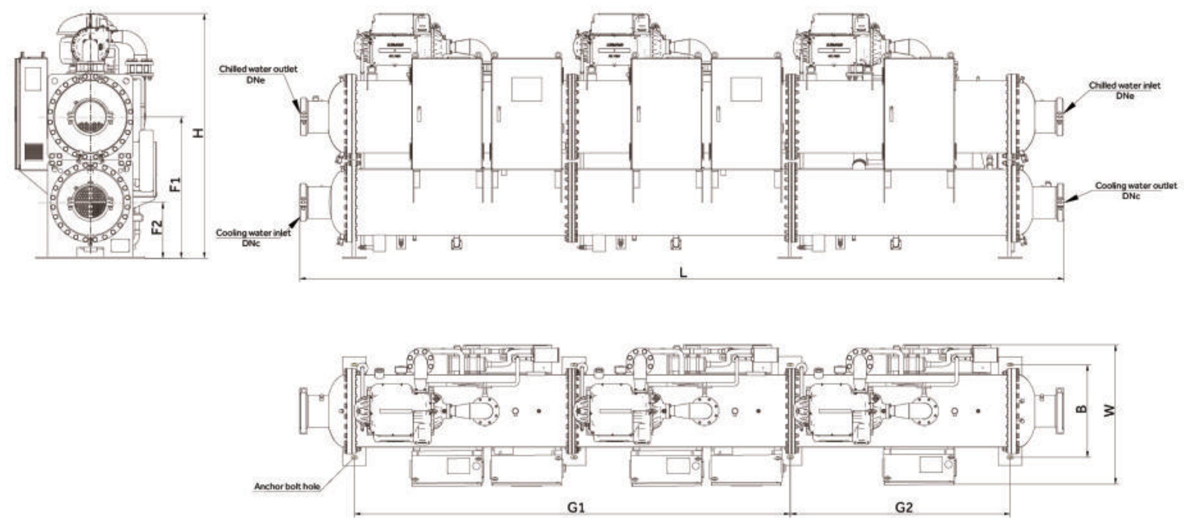
The double compressors chiller series connection standard, parallel connection is optional.



CODE / MODEL	External dimensions mm			Installation dimensions mm		Nozzle dimensions mm					
	L	W	H	B	G	D1	D2	F1	F2	DNe	DNc
CC0880PWNI	4400	1200	2100	790	3719	280	280	1207	337	DN200	DN200
CC1100PWNI	4400	1200	2100	790	3719	280	280	1207	337	DN200	DN200

Three compressors series connection unit dimension diagram

The chiller with three compressors is parallel connection, and also can realize series connection for special requirements.

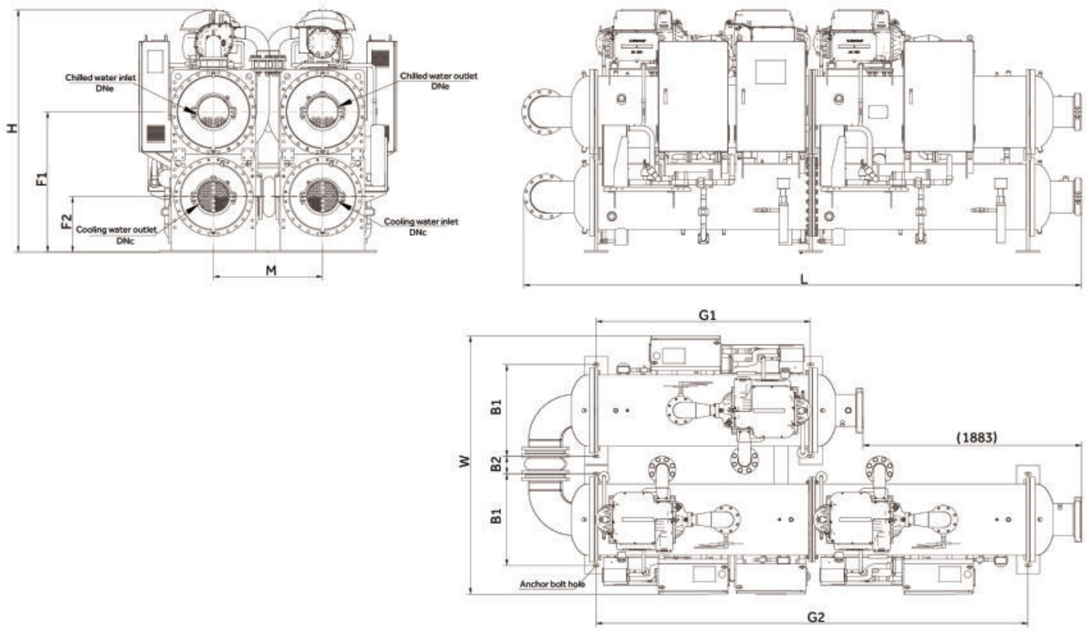


CODE / MODEL	External dimensions mm			Installation dimensions mm			Nozzle dimensions mm				
	L	W	H	B	G1	G2	F1	F2	M	DNe	DNc
CC1330PWNI	6520	1200	2100	790	3719	1846	1207	477	940	DN250	DN250
CC1400PWNI	6520	1200	2100	790	3719	1846	1207	477	940	DN250	DN250
CC1580PWNI	6520	1200	2100	790	3719	1846	1207	477	940	DN250	DN250

Unit Dimension Diagram

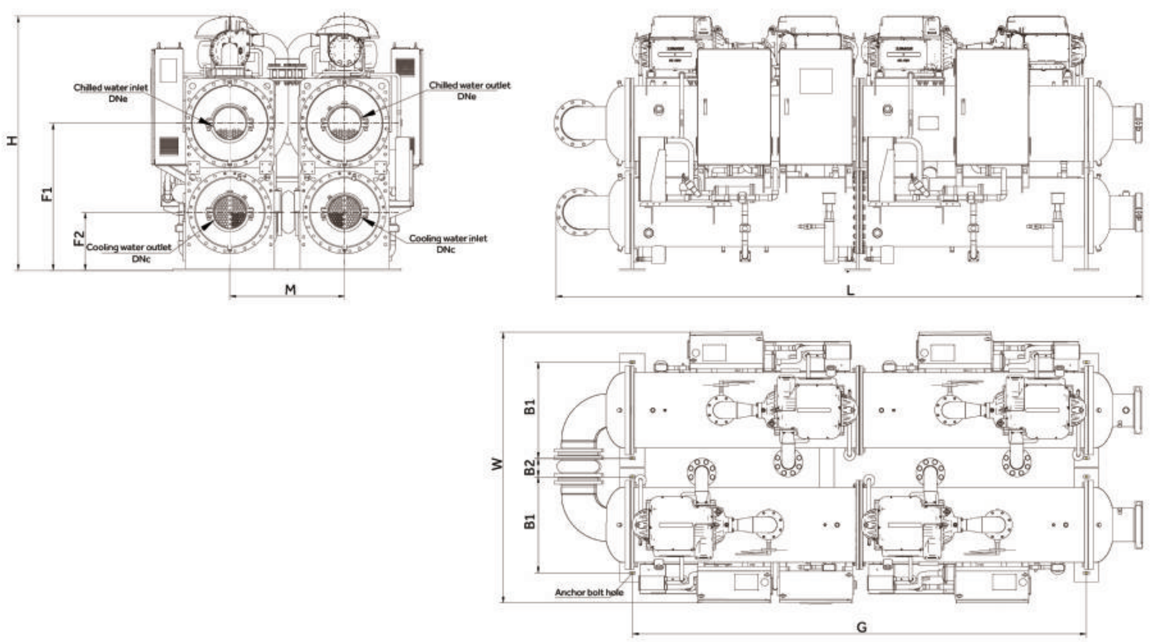
Three compressors series connection unit dimension diagram

The chiller with three compressors is parallel connection, and also can realize series connection for special requirements.



MODEL \ CODE	External dimensions mm			Installation dimensions mm				Nozzle dimensions mm				
	L	W	H	B1	B2	G1	G2	F1	F2	M	DNe	DNc
CC1330PWNI	4800	2250	2250	790	150	1846	3719	1307	477	940	DN250	DN250
CC1400PWNI	4800	2250	2250	790	150	1846	3719	1307	477	940	DN250	DN250
CC1580PWNI	4800	2250	2250	790	150	1846	3719	1307	477	940	DN250	DN250

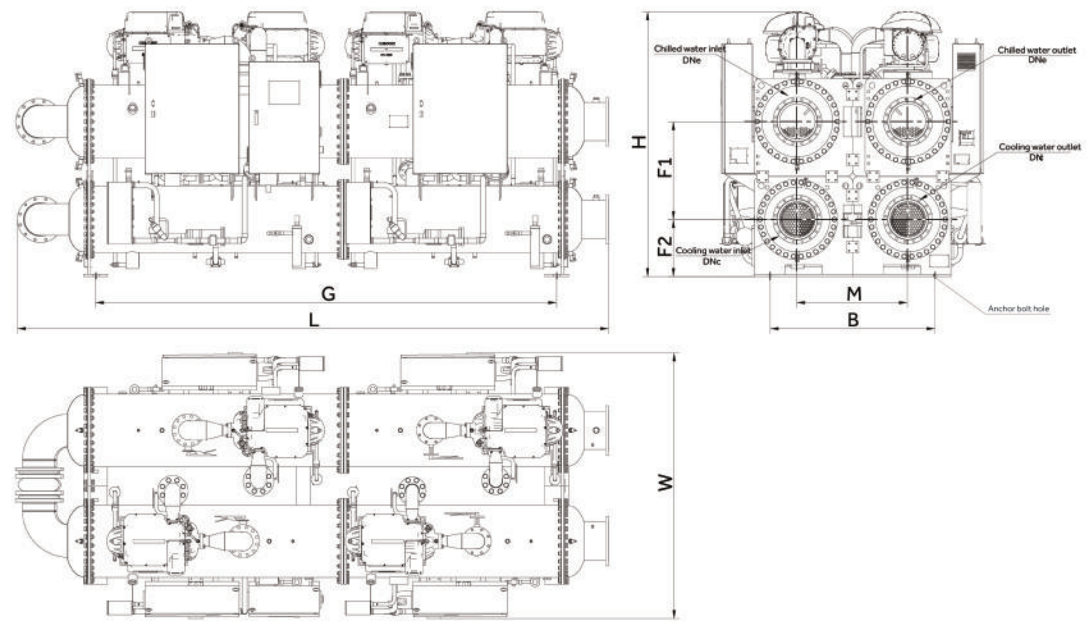
Four compressors parallel connection unit dimension diagram



MODEL \ CODE	External dimensions mm			Installation dimensions mm			Nozzle dimensions mm				
	L	W	H	B1	B2	G	F1	F2	M	DNe	DNc
CC1760PWNI	4800	2250	2250	790	150	3719	1307	477	940	DN250	DN250
CC1930PWNI	4800	2250	2250	790	150	3719	1307	477	940	DN250	DN250
CC2110PWNI	4800	2250	2250	790	150	3719	1307	477	940	DN250	DN250

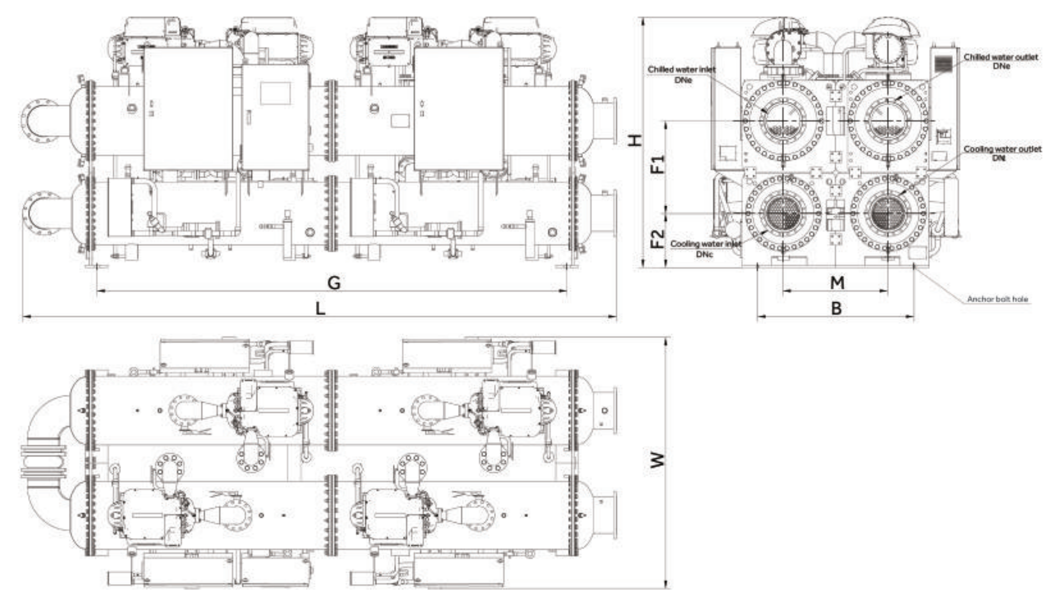
Unit Dimension Diagram

Four compressors parallel connection unit dimension diagram



MODEL \ CODE	External dimensions mm			Installation dimensions mm		Nozzle dimensions mm				
	L	W	H	B	G	F1	F2	M	DNe	DNc
CC2640PWNI	5050	2250	2250	1400	3913	830	485	940	DN300	DN300

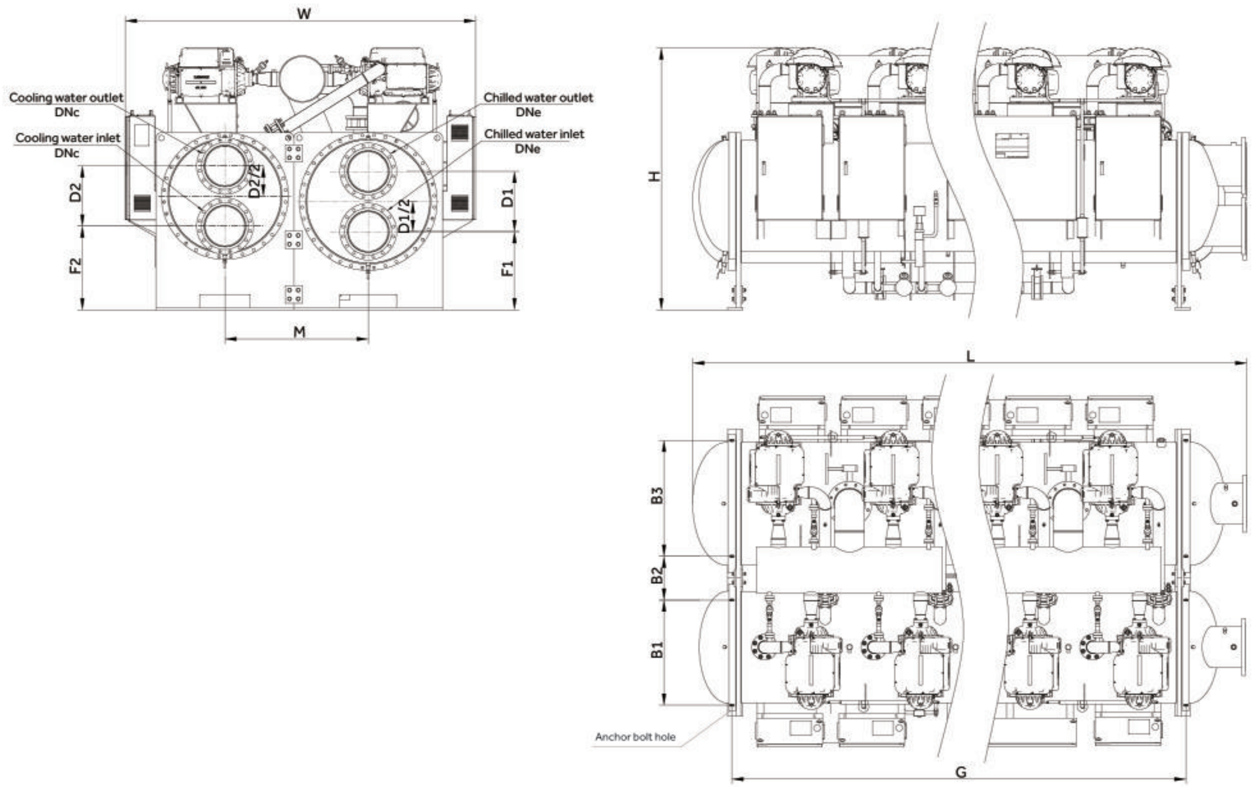
Four compressors parallel connection unit dimension diagram



MODEL \ CODE	External dimensions mm			Installation dimensions mm		Nozzle dimensions mm				
	L	W	H	B	G	F1	F2	M	DNe	DNc
CC2810PWNI	5350	2250	2250	1400	4213	830	485	940	DN300	DN300

Unit Dimension Diagram

Big capacity oil free centrifugal chiller series (for example the model with six compressors)



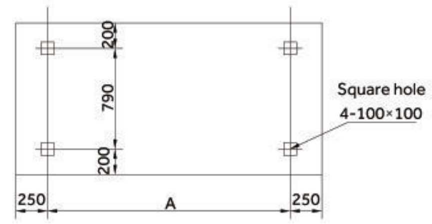
CODE / MODEL	External dimensions mm			Installation dimensions mm				Nozzle dimensions mm						
	L	W	H	B1	B2	B3	G	D1	D2	F1	F2	M	DNe	DNc
CC3170PWNI	4300	3200	2550	960	400	1060	3348	550	550	715	765	1310	DN350	DN350
CC3520PWNI	4300	3200	2550	960	400	1060	4148	550	550	715	765	1310	DN350	DN350
CC3870PWNI	5100	3200	2550	960	400	1060	4148	550	550	715	765	1310	DN350	DN350
CC4220PWNI	5100	3200	2550	960	400	1060	4148	550	550	715	765	1310	DN350	DN350
CC5280PWNI	6600	3800	2700	1160	400	1160	5518	620	620	730	730	1460	DN400	DN400
CC6330PWNI	6600	3800	2700	1160	400	1160	5518	620	620	730	730	1460	DN450	DN450
CC7030PWNI	6600	3800	2700	1160	400	1160	5518	620	620	730	730	1460	DN450	DN450

Notes:

1. Above products direction of the evaporator and condenser water inlet and water outlet can be adjusted according to user requirements
2. Product diamension also can be changed if user have special requirements

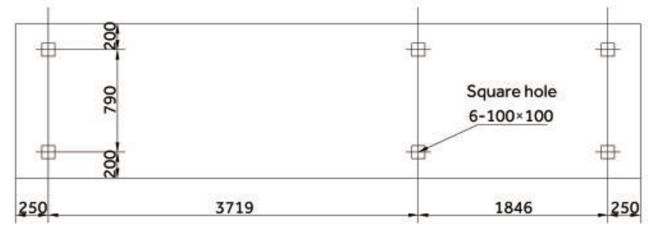
The Unit Installation Foundation Drawing

CC0440PWNI~CC1100PWNI

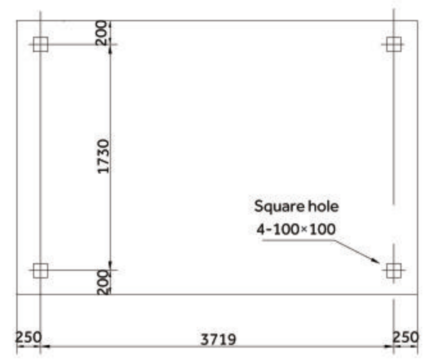


Model	A(mm)
CC0440PWNI	1846
CC0530PWNI	1846
CC0740PWNI	2146
CC0880PWNI	3719
CC1100PWNI	3719

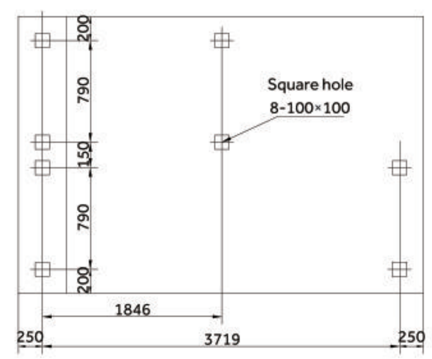
CC1330PWNI~CC1580PWNI(Line type)



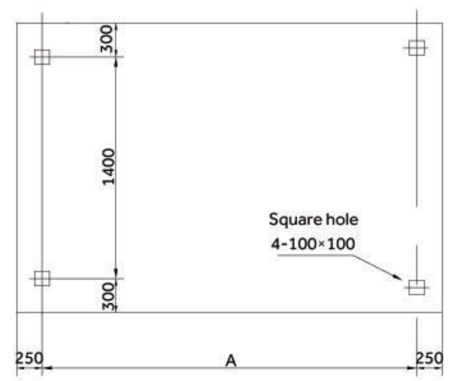
CC1330PWNI~CC1580PWNI(U type)



CC1760PWNI~CC2110PWNI



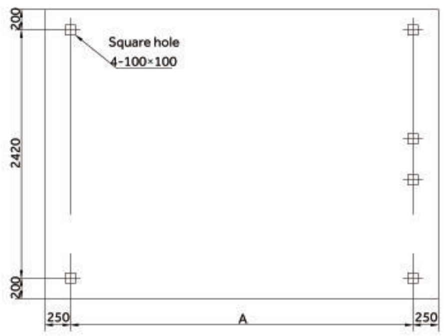
CC2640PWNI~CC2810PWNI



Model	A(mm)
CC2640PWNI	3913
CC2810PWNI	4213

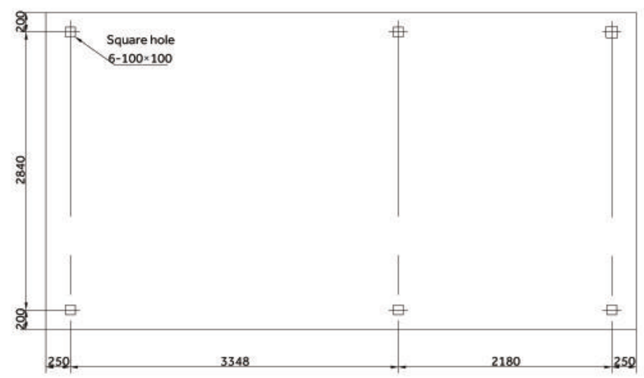
The Unit Installation Foundation Drawing

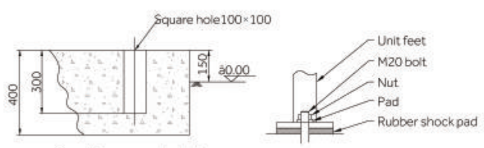
CC3170PWNI~CC5280PWNI



Model	A(mm)
CC3170PWNI	3348
CC3520PWNI	4148
CC3870PWNI	4148
CC4220PWNI	4148

CC5280PWNI~CC7030PWNI





Soundation square hole diagram

NOTE:

1. As AQUA chillers are virtually vibration free, vibration pad is not factory-furnished and could be chosen by users if needed.
2. If the users need to build the foundation by themselves, they can refer to the above table to make installation.
3. If the machine room is built on the floor slab, the building surface needs enough strength to withstand the weight of the chiller operation.
4. When building the concrete foundation, a drainage ditch should be constructed around the foundation for water drainage; edges of the foundation should be smooth.
5. The standard concrete contains 1:2:4 of cement, sand and pebble.
6. After setting up the chiller, the levelness of unit length and width should be less than1/4"(6.35mm)

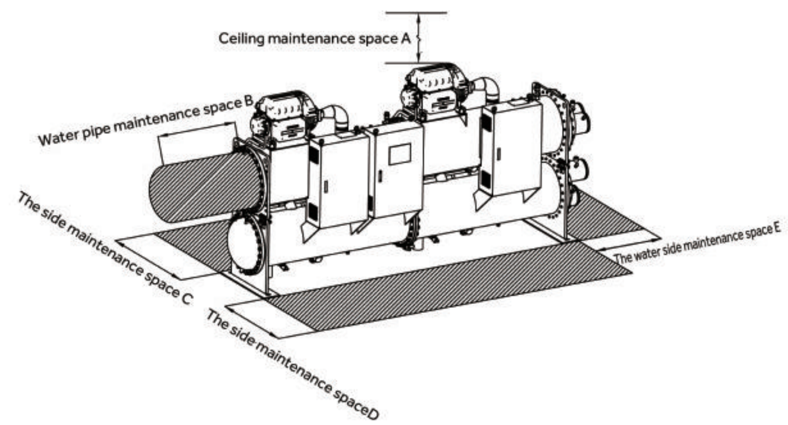
Installation Space Diagram

Water-cooled magnetic bearing centrifugal chiller installation space diagram

mm

Model	A	B	C	D	E
CC0440~CC0530PWNI	500	2000	1500	1500	1500
CC0740PWNI	500	2300	1500	1500	1500
CC0880~CC2110PWNI	500	2000	1500	1500	2000
CC2640PWNI	500	2300	1500	1500	2300
CC2810PWNI	500	2300	1500	1500	2300
CC3170PWNI	1000	3500	1500	1500	2000
CC3520~CC4220PWNI	1000	4200	1500	1500	2000
CC5280~CC7030PWNI	1000	3500	1500	1500	2300

Note: Above data is minimum dimension



Performance Table

Chilled water oulet temp.(°C)	Cooling water inlet temperature(°C) 20		22		24		26		28		30		32		34	
	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input
5	0.96	0.72	0.97	0.79	0.97	0.85	0.97	0.92	0.96	0.96	0.93	0.96	0.89	0.96	0.86	0.97
6	0.97	0.71	0.99	0.78	1.00	0.85	1.00	0.92	0.99	0.97	0.97	0.99	0.93	0.99	0.89	1.00
7	1.00	0.70	1.01	0.77	1.02	0.84	1.03	0.91	1.03	0.98	1.00	1.00	0.96	1.00	0.93	1.01
8	1.01	0.68	1.03	0.76	1.05	0.83	1.05	0.90	1.05	0.97	1.03	1.00	0.99	1.00	0.96	1.02
9	1.03	0.66	1.05	0.74	1.07	0.82	1.08	0.89	1.08	0.96	1.06	1.00	1.02	1.00	0.98	1.02
10	1.04	0.64	1.07	0.73	1.09	0.81	1.11	0.89	1.11	0.96	1.09	1.00	1.05	1.00	1.01	1.02
12	1.05	0.60	1.09	0.69	1.12	0.77	1.15	0.86	1.16	0.94	1.11	1.00	1.12	1.01	1.07	1.03
15	1.03	0.47	1.11	0.60	1.17	0.71	1.20	0.81	1.22	0.90	1.24	0.98	1.22	1.01	1.17	1.04

Air-cooled
Magnetic Bearing Centrifugal Chiller

Air cooled/Cooling only

Cooling capacity range from 315kW up to 1760kW

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* Picture is based on single compressor model

Options/Accessories

Accessories	Standard	Optional
Power supply	3N~/380V/50Hz	3N~/380V/60Hz; 3N~/400V/50Hz; 3N~/460V/60Hz
Communication protocal	Cloud service	Modbus/BACnet
Active power filter	X	√
Water inlet/outlet connection type	Victaulic	Flange
"Epoxy" coating thickness of fin	0.105mm	0.15mm
Water side working pressure	1.0Mpa	1.6Mpa
Fan	AC fan	VSD fan
ASME pressure vessel	X	√
Chilled water flowmeter	X	√
Pipe connection between modules	Pipe and victaulic	Flexible connection
Thermal insulation thickness	20mm	25mm/30mm

Specification

Model			CC0315PANI	CC0350PANI	CC0440PANI
Combination			A	B	C
Cooling capacity		kW	315.0	350.0	440.0
Total Power input		kW	92.60	102.0	125.0
COP		kW/kW	3.402	3.431	3.520
Starting current(Compressor)		A	2	2	2
Max. running current		A	200	250	280
Max. power input		kW	110	148	166
Power supply			3N~/380V/50Hz		
Refrigerant throttle type			Electronic expansion valve		
Capacity control			10%~100%		
Safe protection			Compressor overload protection, safe protection, low water flow protection, antifreezing protection, fan motor overload protection, lack of phase protection		
Compressor	Type		Magnetic bearing compressor		
	Quantity		1	1	1
Refrigerant	Type		R134a		
	Charge	kg	220	220	270
Air side heat exchanger	Type		High efficiency copper tube+hydroponic alunminum foil		
	Fan typ		Axial fan with low noise		
	Fan quantity		6	6	8
Water side heat exchanger	Type		Flooded type		
	Rated water flow	m³/h	54	60	76
	Inlet/outlet pipe	DN	150	150	150
	Water dirt coefficient	m².°C/kW	0.0172		
	Standard pressure	MPa	1		
	Water side resistance	kPa	70	75	88
External dimension	Unit length	mm	4020	4020	5220
	Unit width	mm	2240	2240	2240
	Unit height	mm	2420	2420	2420
Weight	Net weight	kg	3400	3400	3985
	Gross weight	kg	3450	3450	4050
	Operation weight	kg	3500	3500	4230

Model			CC0630PANI	CC0700PANI	CC0790PANI
Combination			2*A	2*B	B+C
Cooling capacity		kW	630.0	700.0	790.0
Total Power input		kW	185.2	203.0	226.0
COP		kW/kW	3.402	3.448	3.496
Starting current(Compressor)		A	2	2	2
Max. running current		A	400	500	530
Max. power input		kW	220	296	314
Power supply			3N~/380V/50Hz		
Refrigerant throttle type			Electronic expansion valve		
Capacity control			10%~100%		
Safe protection			Compressor overload protection, safe protection, low water flow protection, antifreezing protection, fan motor overload protection, lack of phase protection		
Compressor	Type		Magnetic bearing compressor		
	Quantity		2	2	2
Refrigerant	Type		R134a		
	Charge	kg	440	440	490
Air side heat exchanger	Type		High efficiency copper tube+hydroponic alunminum foil		
	Fan typ		Axial fan with low noise		
	Fan quantity		12	12	14
Water side heat exchanger	Type		Flooded type		
	Rated water flow	m³/h	108	120	136
	Inlet/outlet pipe	DN	150	150	150
	Water dirt coefficient	m².°C/kW	0.0172		
	Standard pressure	MPa	1		
	Water side resistance	kPa	72	76	84
External dimension	Unit length	mm	7650	7650	8850
	Unit width	mm	2240	2240	2240
	Unit height	mm	2420	2420	2420
Weight	Net weight	kg	6840	6840	7425
	Gross weight	kg	6940	6940	7540
	Operation weight	kg	7080	7080	7810

Note:
1. Above parameters is based on the standard products;
2. Above products standard pressure is 1.0 Mpa,if pressure higher than 1.0Mpa,should contact with haier technology engineer;
3. Operating ambient temperature range：15~43℃；
4. Except CC0315PANI/CC0350PANI/CC0440PANI model,other is combinetion,also separately transport;
5. Due to our policy of innovation some specifications maybe changed without notification;

Model			CC0880PANI	CC0980PANI	CC1050PANI
Combination			2*C	2*A+B	3*B
Cooling capacity		kW	880.0	980.0	1050
Total Power input		kW	246.5	287.2	303.0
COP		kW/kW	3.570	3.412	3.465
Starting current(Compressor)		A	2	2	2
Max. running current		A	560	650	750
Max. power input		kW	332	368	444
Power supply			3N~/380V/50Hz		
Refrigerant throttle type			Electronic expansion valve		
Capacity control			10%~100%		
Safe protection			Compressor overload protection, safe protection, low water flow protection, antifreezing protection, fan motor overload protection, lack of phase protection		
Compressor	Type		Magnetic bearing compressor		
	Quantity		2	3	3
Refrigerant	Type		R134a		
	Charge	kg	540	660	660
Air side heat exchanger	Type		High efficiency copper tube+hydroponic alunminum foil		
	Fan typ		Axial fan with low noise		
	Fan quantity		16	18	18
Water side heat exchanger	Type		Flooded type		
	Rated water flow	m³/h	151	169	181
	Inlet/outlet pipe	DN	150	250	250
	Water dirt coefficient	m².°C/kW	0.0172		
	Standard pressure	MPa	1		
	Water side resistance	kPa	90	38	40
External dimension	Unit length	mm	10040	11270	11270
	Unit width	mm	2240	2240	2240
	Unit height	mm	2420	2420	2420
Weight	Net weight	kg	8010	10280	10280
	Gross weight	kg	8140	10430	10430
	Operation weight	kg	8540	10660	10660

Model			CC1140PANI	CC1230PANI	CC1320PANI
Combination			2*B+C	B+2*C	3*C
Cooling capacity		kW	1140	1230	1320
Total Power input		kW	325.5	348.5	364.6
COP		kW/kW	3.502	3.529	3.620
Starting current(Compressor)		A	2	2	2
Max. running current		A	780	810	840
Max. power input		kW	462	480	498
Power supply			3N~/380V/50Hz		
Refrigerant throttle type			Electronic expansion valve		
Capacity control			10%~100%		
Safe protection			Compressor overload protection, safe protection, low water flow protection, antifreezing protection, fan motor overload protection, lack of phase protection		
Compressor	Type		Magnetic bearing compressor		
	Quantity		3	3	3
Refrigerant	Type		R134a		
	Charge	kg	710	760	810
Air side heat exchanger	Type		High efficiency copper tube+hydroponic alunminum foil		
	Fan typ		Axial fan with low noise		
	Fan quantity		20	22	24
Water side heat exchanger	Type		Flooded type		
	Rated water flow	m³/h	196	212	227
	Inlet/outlet pipe	DN	250	250	250
	Water dirt coefficient	m².°C/kW	0.0172		
	Standard pressure	MPa	1		
	Water side resistance	kPa	42	43	45
External dimension	Unit length	mm	12470	13660	14870
	Unit width	mm	2240	2240	2240
	Unit height	mm	2420	2420	2420
Weight	Net weight	kg	10865	11450	12035
	Gross weight	kg	11030	11630	12230
	Operation weight	kg	11390	12120	12850

Note: 1. Above parameters is based on the standard products;
2. Above products standard pressure is 1.0 Mpa,if pressure higher than 1.0Mpa,should contact with haier technology engineer;
3. Operating ambient temperature range：15~43℃;
4. Except CC0315PANI/CC0350PANI/CC0440PANI model,other is combination,also separately transport;
5. Due to our policy of innovation some specifications maybe changed without notification.

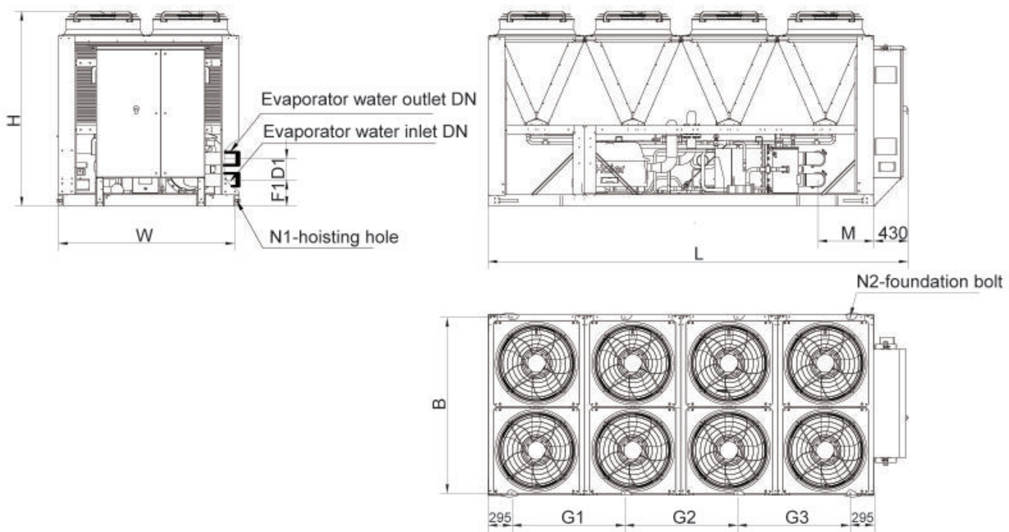
Model			CC1400PANI	CC1490PANI
Combination			4*B	3*B+C
Cooling capacity		kW	1400	1490
Total Power input		kW	400.0	423.8
COP		kW/kW	3.500	3.516
Starting current(Compressor)		A	2	2
Max. running current		A	1000	1030
Max. power input		kW	592	610
Power supply			3N~/380V/50Hz	
Refrigerant throttle type			Electronic expansion valve	
Capacity control			10%~100%	
Safe protection			Compressor overload protection, safe protection, low water flow protection, antifreezing protection, fan motor overload protection, lack of phase protection	
Compressor	Type		Magnetic bearing compressor	
	Quantity		4	4
Refrigerant	Type		R134a	
	Charge	kg	880	930
Air side heat exchanger	Type		High efficiency copper tube+hydroponic alunminum foil	
	Fan typ		Axial fan with low noise	
	Fan quantity		24	26
Water side heat exchanger	Type		Flooded type	
	Rated water flow	m³/h	241	256
	Inlet/outlet pipe	DN	250	250
	Water dirt coefficient	m².°C/kW	0.0172	
	Standard pressure	MPa	1	
	Water side resistance	kPa	75	78
External dimension	Unit length	mm	14900	16100
	Unit width	mm	2240	2240
	Unit height	mm	2420	2420
Weight	Net weight	kg	13800	14385
	Gross weight	kg	14000	14600
	Operation weight	kg	14300	15030

Model			CC1580PANI	CC1670PANI	CC1760PANI
Combination			2*B+2*C	B+3*C	4*C
Cooling capacity		kW	1580	1670	1760
Total Power input		kW	445.0	462.6	482.2
COP		kW/kW	3.551	3.610	3.650
Starting current(Compressor)		A	2	2	2
Max. running current		A	1060	1090	1120
Max. power input		kW	628	646	664
Power supply			3N~/380V/50Hz		
Refrigerant throttle type			Electronic expansion valve		
Capacity control			10%~100%		
Safe protection			Compressor overload protection, safe protection, low water flow protection, antifreezing protection, fan motor overload protection, lack of phase protection		
Compressor	Type		Magnetic bearing compressor		
	Quantity		4	4	4
Refrigerant	Type		R134a		
	Charge	kg	980	1030	1080
Air side heat exchanger	Type		High efficiency copper tube+hydroponic alunminum foil		
	Fan typ		Axial fan with low noise		
	Fan quantity		28	30	32
Water side heat exchanger	Type		Flooded type		
	Rated water flow	m³/h	272	287	303
	Inlet/outlet pipe	DN	250	250	250
	Water dirt coefficient	m².°C/kW	0.0172		
	Standard pressure	MPa	1		
	Water side resistance	kPa	80	86	90
External dimension	Unit length	mm	17300	18480	19680
	Unit width	mm	2240	2240	2240
	Unit height	mm	2420	2420	2420
Weight	Net weight	kg	14970	15555	16140
	Gross weight	kg	15200	15800	16400
	Operation weight	kg	15760	16490	17220

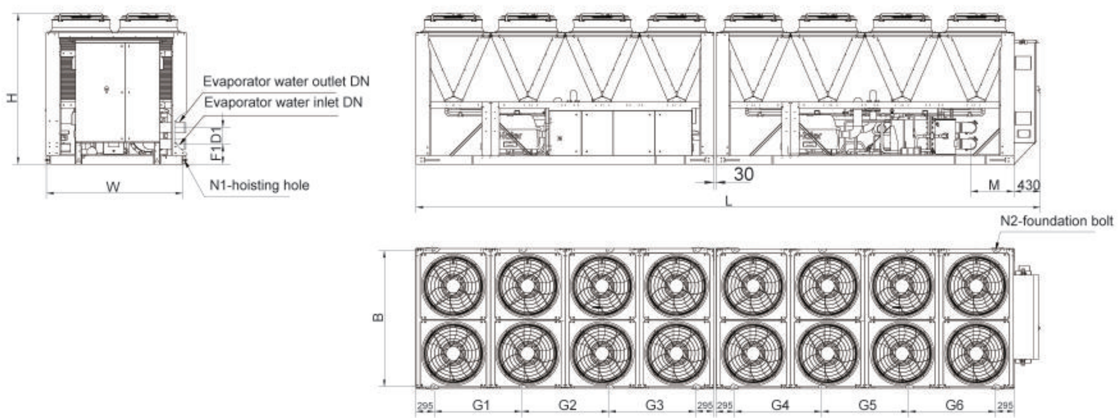
Note: 1. Above parameters is based on the standard products;
2. Above products standard pressure is 1.0 Mpa,if pressure higher than 1.0Mpa,should contact with haier technology engineer;
3. Operating ambient temperature range：15~43℃;
4. Except CC0315PANI/CC0350PANI/CC0440PANI model,other is combination,also separately transport;
5. Due to our policy of innovation some specifications maybe changed without notification.

Unit Dimension Diagram

Air-cooled magnetic bearing centrifugal chiller dimension diagram



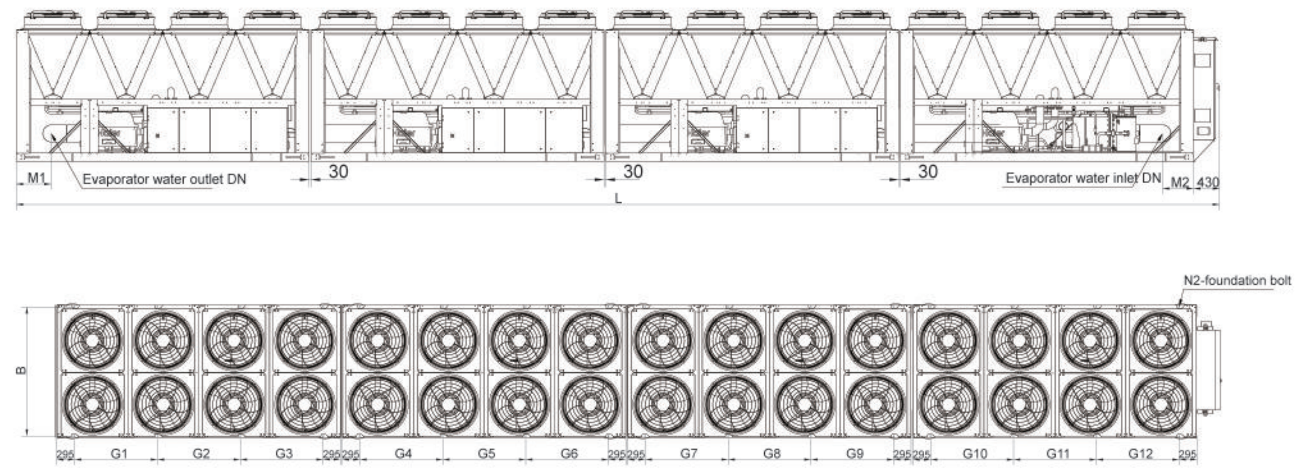
Model	Dimension mm			Installation dimension mm				Pipe connection dimension mm				Hoisting hole number	Foundation bolt number
	L	W	H	B	G1	G2	G3	D1	F1	M	DN	N1	N2
CC0315PANI	4020	2240	2420	2190	1500	1500		260	330	355	DN150	6	6
CC0350PANI	4020	2240	2420	2190	1500	1500		260	330	355	DN150	6	6
CC0440PANI	5220	2240	2420	2190	1400	1400	1400	260	330	690	DN150	6	8

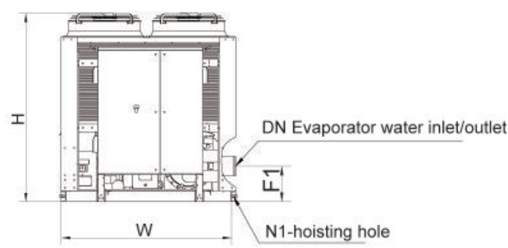


Model	Dimension mm			Installation dimension mm							Pipe connection dimension mm				Hoisting hole number	Foundation bolt number
	L	W	H	B	G1	G2	G3	G4	G5	G6	D1	F1	M	DN	N1	N2
CC0630PANI	7650	2240	2420	2190	1500	1500		1500	1500		260	330	355	DN150	12	12
CC0700PANI	7650	2240	2420	2190	1500	1500		1500	1500		260	330	355	DN150	12	12
CC0790PANI	8850	2240	2420	2190	1500	1500		1400	1400	1400	260	330	690	DN150	12	14
CC0880PANI	10040	2240	2420	2190	1400	1400	1400	1400	1400	1400	260	330	690	DN150	12	16

Unit Dimension Diagram

Air-cooled magnetic bearing centrifugal chiller dimension diagram

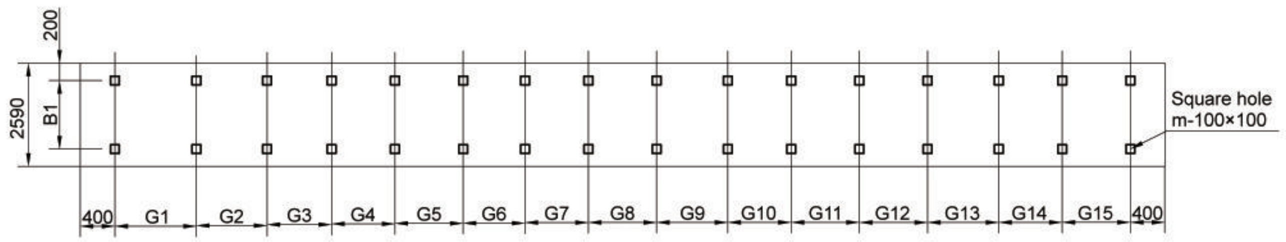


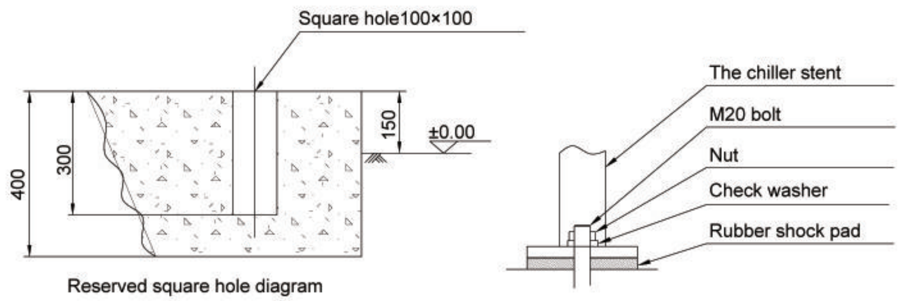


Model	Dimension mm			Installation dimension mm													Pipe connection dimension mm				Hoisting hole number	Foundation bolt number
	L	W	H	B	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	F1	M1	M2	DN	N1	N2
CC0980PANI	11270	2240	2420	2190	1500	1500		1500	1500		1500	1500					460	355	355	DN250	18	18
CC1050PANI	11270	2240	2420	2190	1500	1500		1500	1500		1500	1500					460	355	355	DN250	18	18
CC1140PANI	12470	2240	2420	2190	1500	1500		1500	1500		1400	1400	1400				460	355	450	DN250	18	20
CC1230PANI	13660	2240	2420	2190	1500	1500		1400	1400	1400	1400	1400	1400				460	355	450	DN250	18	22
CC1320PANI	14870	2240	2420	2190	1400	1400	1400	1400	1400	1400	1400	1400	1400				460	570	450	DN250	18	24
CC1400PANI	14900	2240	2420	2190	1500	1500		1500	1500		1500	1500		1500	1500		460	355	355	DN250	24	24
CC1490PANI	16100	2240	2420	2190	1500	1500		1500	1500		1500	1500		1400	1400	1400	460	355	450	DN250	24	26
CC1580PANI	17300	2240	2420	2190	1500	1500		1500	1500		1400	1400	1400	1400	1400	1400	460	355	450	DN250	24	30
CC1670PANI	18480	2240	2420	2190	1500	1500		1400	1400	1400	1400	1400	1400	1400	1400	1400	460	355	450	DN250	24	32
CC1760PANI	19680	2240	2420	2190	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	460	570	450	DN250	24	32

The Unit Installation Foundation Drawing

Air-cooled magnetic bearing centrifugal chiller installed base





Reserved square hole diagram

Model	B1(mm)	G1(mm)	G2(mm)	G3(mm)	G4(mm)	G5(mm)	G6(mm)	G7(mm)	G8(mm)	G9(mm)	G10(mm)	G11(mm)	G12(mm)	G13(mm)	G14(mm)	G15(mm)	m
CC0315PANI	2190	1500	1500														6
CC0350PANI	2190	1500	1500														6
CC0440PANI	2190	1400	1400	1400													8
CC0630PANI	2190	1500	1500	620	1500	1500											12
CC0700PANI	2190	1500	1500	620	1500	1500											12
CC0790PANI	2190	1500	1500	620	1400	1400	1400										14
CC0880PANI	2190	1400	1400	1400	620	1400	1400	1400									16
CC0980PANI	2190	1500	1500	620	1500	1500	620	1500	1500								18
CC1050PANI	2190	1500	1500	620	1500	1500	620	1500	1500								18
CC1140PANI	2190	1500	1500	620	1500	1500	620	1400	1400	1400							20
CC1230PANI	2190	1500	1500	620	1400	1400	1400	620	1400	1400	1400						22
CC1320PANI	2190	1400	1400	1400	620	1400	1400	1400	620	1400	1400	1400					24
CC1400PANI	2190	1500	1500	620	1500	1500	620	1500	1500	620	1500	1500					24
CC1490PANI	2190	1500	1500	620	1500	1500	620	1500	1500	620	1400	1400	1400				26
CC1580PANI	2190	1500	1500	620	1500	1500	620	1400	1400	1400	620	1400	1400	1400			28
CC1670PANI	2190	1500	1500	620	1400	1400	1400	620	1400	1400	1400	620	1400	1400	1400		30
CC1760PANI	2190	1400	1400	1400	620	1400	1400	1400	620	1400	1400	1400	620	1400	1400	1400	32

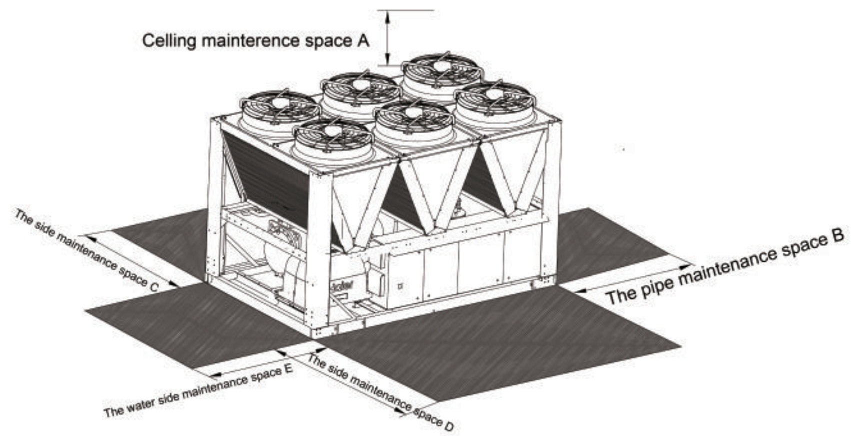
Installation Space Diagram

Air-cooled magnetic bearing centrifugal chiller installation space diagram

mm

Model	A	B	C	D	E
CC0315-0440PANI	2000	2000	1500	2000	1500
CC0630-1760PANI	3000	2000	1500	2000	1500

Note: above data is minimum dimension



Performance Table

Chilled water oulet temp.(°C)	Ambient temperature (°C)													
	14		18		23		26		30		35		38	
	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input
5	0.91	0.55	0.96	0.68	1.01	0.82	1.00	0.87	0.96	0.93	0.93	1.02	0.92	1.03
7	0.91	0.52	0.99	0.67	1.06	0.84	1.05	0.90	1.03	0.96	1.00	1.00	1.00	1.05
9	0.92	0.48	1.01	0.63	1.08	0.83	1.08	0.90	1.10	1.01	1.04	1.05	1.01	1.05
10	0.91	0.45	1.02	0.61	1.10	0.83	1.10	0.90	1.13	1.03	1.06	1.06	1.03	1.06
11	0.90	0.42	1.03	0.59	1.13	0.83	1.13	0.91	1.16	1.05	1.07	1.06	1.05	1.06
12	0.88	0.40	1.04	0.57	1.14	0.83	1.16	0.91	1.19	1.05	1.11	1.06	1.07	1.06
13	0.87	0.38	1.05	0.55	1.16	0.82	1.18	0.91	1.22	1.06	1.15	1.06	1.09	1.06
15	0.87	0.33	1.03	0.52	1.19	0.80	1.23	1.01	1.26	1.07	1.19	1.06	1.14	1.06

Modular Water-cooled Magnetic Bearing Centrifugal Chiller

Water cooled/Cooling only
Cooling capacity range from 320kW up to 500kW

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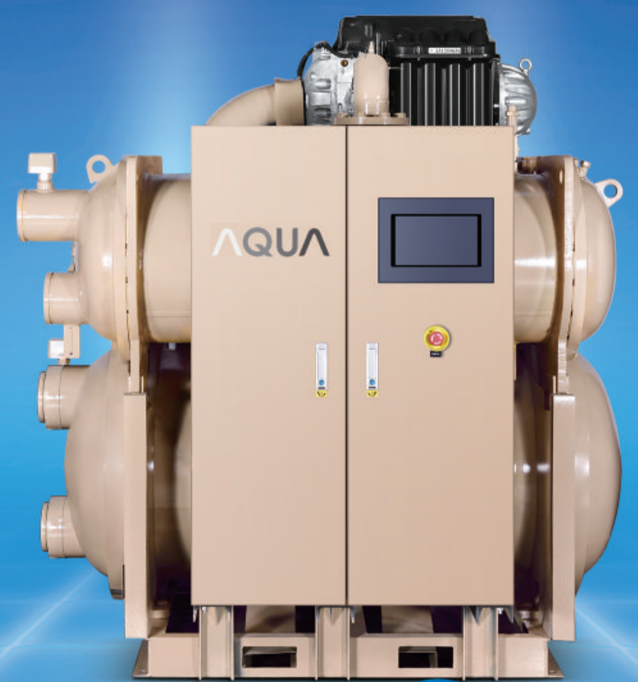


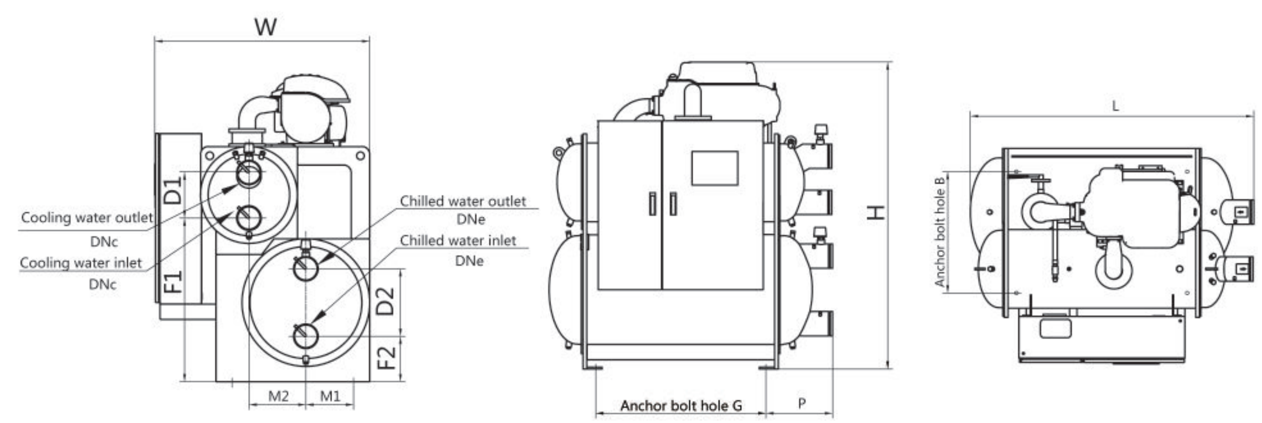
Options/Accessories

Accessories	Standard	Optional
Power supply	3N~/380V/50Hz	3N~/380V/60Hz; 3N~/400V/50Hz; 3N~/460V/60Hz
Communication protocal	Cloud service	Modbus/BACnet
Active power filter	X	√
Surge suppressors	X	√
Water inlet/outlet connection type	Victaulic	Flange
Thermal insulation thickness	30mm	25mm/40mm
Water side working pressure	1.0Mpa	1.6Mpa/2.5Mpa
ASME pressure vessel	X	√
Chilled water flowmeter	X	√
Automatic online rubber ball cleaning device	X	√
Channel steel base	X	√

Specification & Dimension

MODEL			CC0320PWNN	CC0400PWNN	CC0500PWNN
Cooling capacity		RT	90	114	142
		kW	320	400	500
Power input		kW	55.2	71.4	89.3
COP		kW/kW	5.80	5.60	5.60
Starting current		A	2	2	2
Max. running current		A	176	178	180
Safe protection			compressor overload protection, safe protection, low water flow protection, antifreezing protection, fan motor overload protection, lack of phase protection		
Compressor	Type		Magnetic bearing compressor		
	Starting mode		soft start		
	Quantity		1	1	1
Power supply			3N~/380V/50Hz		
Refrigerant throttle type			Electronic expansion valve		
Capacity control			10%-100%		
Controller type			PLC control		
Refrigerant	Type		R134a		
	Charge	kg	80	85	120
Evaporator	Type		Falling film		
	Water inlet/outlet temp		12°C/7°C		
	Inlet/outlet pipe	DN	150	150	150
	Rated water flow	m^3/h	55	69	86
	Water dirt coefficient	$m^2.°C/kW$	0.018		
	Standard pressure	MPa	1.0		
	Water side resistance	kPa	60	60	55
Condenser	Type		Shell &Tube heat exchanger		
	Water inlet/outlet temp		30°C/35°C		
	Inlet/outlet pipe	DN	150	150	150
	Rated water flow	m^3/h	64.6	81	101.3
	Water dirt coefficient	$m^2.°C/kW$	0.044		
	Standard pressure	MPa	1.0		
	Water side resistance	kPa	75	75	80
External dimension	Unit length	mm	1880	1880	1880
	Unit width	mm	1400	1400	1425
	Unit height	mm	2010	2010	2070
Weight	Net weight	kg	1890	1950	2080
	Gross weight	kg	1930	1990	2120
	Operation weight	kg	2140	2210	2370

Note: Due to our policy of innovation, some specifications may be changed without notification.



Model	External Dimension mm			Installation Dimension mm			Nozzle dimensions mm								
	L	W	H	B	G	P	D1	D2	F1	F2	M1	M2	N	DNe	DNc
CC0320PWNN	1880	1400	2010	790	1112	437	260	440	1085	295	310	370	80	DN150	DN150
CC0400PWNN	1880	1400	2010	790	1112	437	260	440	1085	295	310	370	80	DN150	DN150
CC0500PWNN	1880	1425	2070	790	1112	437	260	440	1110	295	310	370	80	DN150	DN150

WATER-COOLED SCREW CHILLER

High Efficiency Series

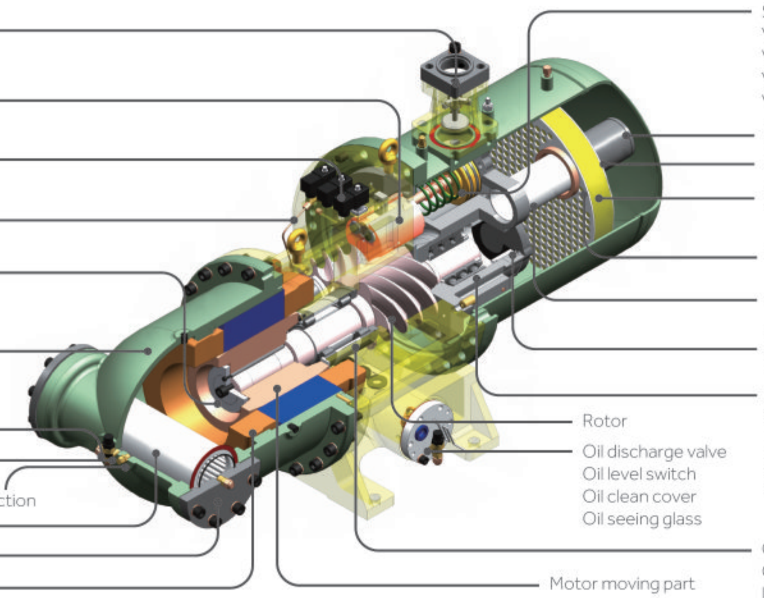
Normal Efficiency Series

KEY FEATURE

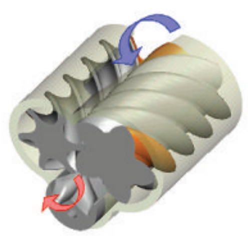
High Efficiency

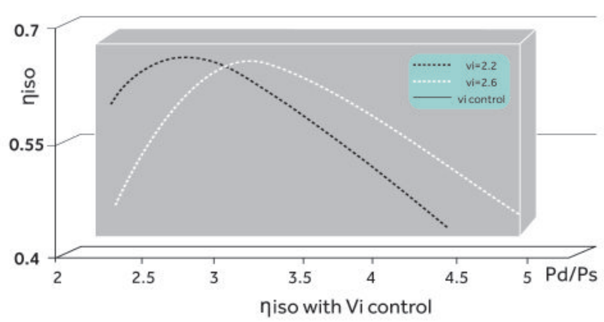
High efficient compressor

· Adopt international famous brand twin-screw compressor.
· 5:6 structure.
· Slide valve.
· Save 10% energy comparing with common screw compressor.



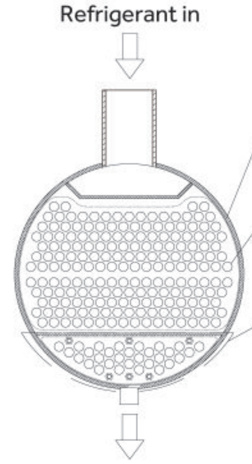
Compressor cut-away view





Sub cooling design

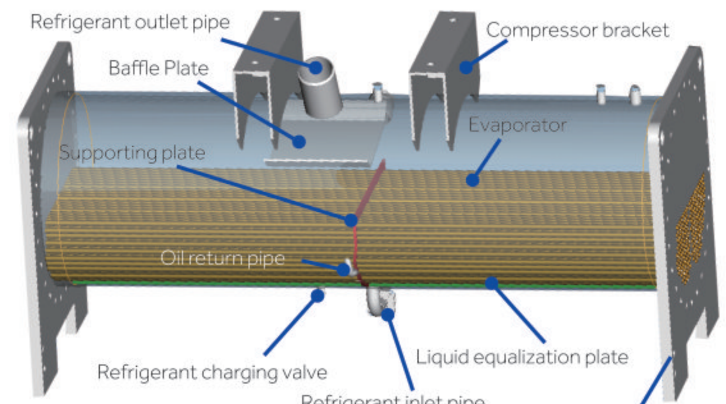
The condenser have the sub cooling design, which makes the refrigerant cooling for another degrees, capacity increase 6 %



High Efficiency

Flooded type heat exchanger

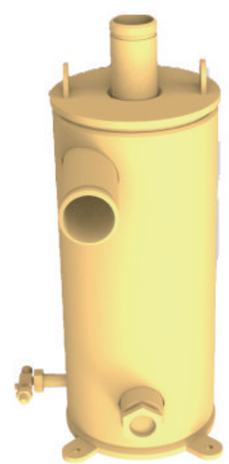
· Flooded type heat exchanger, high efficient heat exchange, easy to clean dirt and the whole seal has no leakage.
· Innovative single path design, reduce water side resistance loss.
· Particular inner circle heat transfer and liquid balanced board design make every tube can transfer heat well.



High Reliability

Tornado type oil separator

· Tornado patent design.
· Oil separator efficiency reaches more than 99.9%.
· Reduce refrigerant side thermo resistance effectively.
· Increase heat exchange efficiency.



Protection device

There are lots of protection device to ensure the equipment to run stably.

Compressor motor protector:
ensure compressor run normally

Pressure switch:
keep the products run in the normal range pressure.

Pressure sensor :
second protection in pressure control

Water flow switch:
ensure the water flow to equipment when product turn on

Safety valve:
In case of fire, stop the equipment from dangerous

KEY FEATURE

Easy Installation

Reserved refrigerant

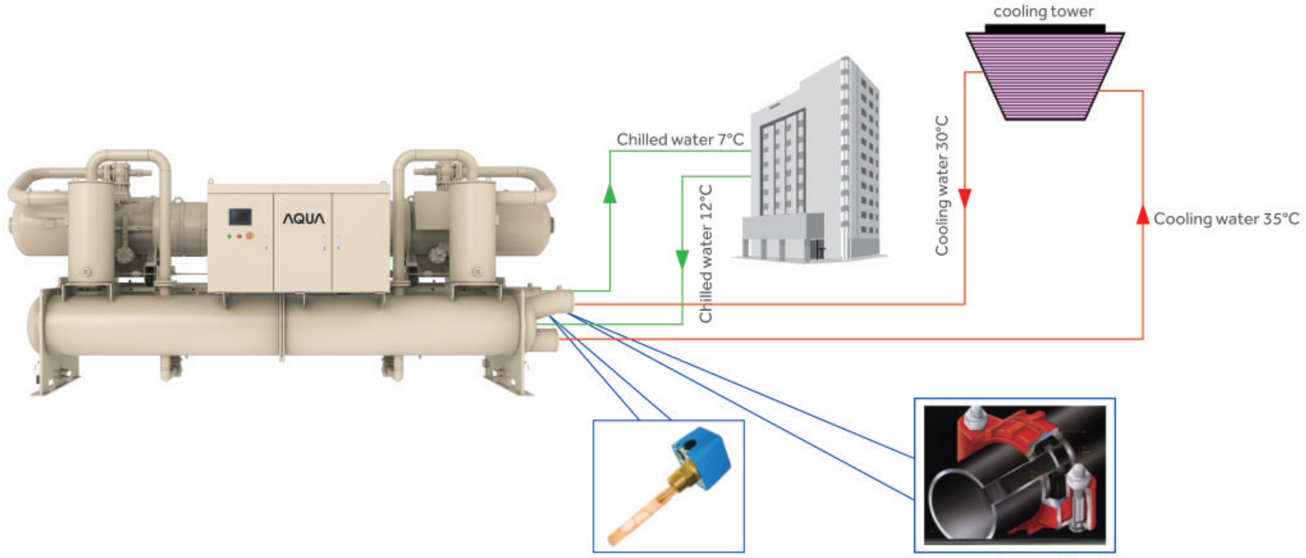
Standard Products is with refrigerant inside, installer just need install the pipe and power supply.

Standard water flow switch

Water flow switch is standard part, no need to purchase another.

Standard bar clasp and connection pipe assembly

Bar clasp and connection pipe assembly are standard part, the pipe connection is easier.



Bar clasp and connection pipe assembly

Convenience

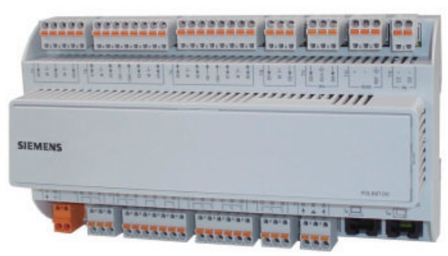
Functional control screen

7 inch colorful touch screen.

Status: Water temperature, pressure/current/pump/running curve/history curve
Timer: Weekly timer
Error: Error history check
User: Local control/BMS control

PLC design

PLC programmable controller improve the reaction speed and reliability;



WATER-COOLED SCREW CHILLER

R134a Water-cooled Screw Chiller

Water cooled/Cooling only (high efficiency series)
Cooling capacity range from 350kW up to 2087kW

Options/Accessories

Accessories		Standard	Optional
Power supply		3N~/380V/50Hz	3N~/380V/60Hz; 3N~/400V/50Hz; 3N~/460V/60Hz
Communication protocal		X	Modbus/BACnet
Water inlet/outlet connection type	≤800RT	Victaulic	Flange
	>800RT	Flange	/
Thermal insulation thickness		30mm	25mm/40mm
Water side working pressure		1.0Mpa	1.6Mpa/2.5Mpa
ASME pressure vessel		X	√
Chilled water flowmeter		X	√
Automatic online rubber ball cleaning device		X	√
Channel steel base		X	√
Heat recovery		X	Partial heat recovery(Hot water outlet temperature is no more than 40℃, heat recovery efficiency is about 10%)

Specification

MODEL			CI0350PWNC	CI0425PWNC	CI0530PWNC	CI0670PWNC	CI0750PWNC
Cooling capacity		RT	100	121	150	191	215
		kW	350	425	528	670	755
Power input		kW	62.5	75.5	93.5	117.0	133.0
Max power input		kW	89	108	136	168	200
COP		kW/kW	5.60	5.63	5.65	5.73	5.68
Starting current		A	450	450	704	768	1010
Max. running current		A	150	183	226	280	343
Compressor	Type		1				
	Quantity		Semi-Hermetic screw chiller				
Capacity control			25%~100%				
Power supply		Ph/V/Hz	3N~/380V/50Hz				
Controller type			PLC				
Refrigerant throttle type			Electronic expansion vavle				
Refrigerant	Type		R134a				
Evaporator	Type		flooded type				
	Water inlet/outlet temp.	℃	12℃/7℃				
	Rated water flow	m^3/h	60	73	91	115	130
	Water side resistance	kPa	100	86	96	102	100
	Inlet/outlet pipe	DN(mm)	100	125	125	125	150
	Water dirt coefficient	$m^2.℃/kW$	0.018				
	Standard pressure	MPa	1.0				
Condenser	Type		Shell&tube heat exchanger				
	Water inlet/outlet temp.	℃	30℃/35℃				
	Rated water flow	m^3/h	71	86	107	135	153
	Water side resistance	kPa	96	83	98	102	95
	Inlet/outlet pipe	DN(mm)	100	125	125	125	150
	Water dirt coefficient	$m^2.℃/kW$	0.044				
	Standard pressure	MPa	1.0				
External dimension	Unit length	mm	2850	2850	2850	2850	3150
	Unit width	mm	1600	1700	1850	1900	2050
	Unit height	mm	1900	1950	2000	2050	2150
Package dimension	Unit length	mm	3050	3050	3050	3050	3350
	Unit width	mm	1700	1800	1950	2000	2150
	Unit height	mm	2250	2300	2350	2400	2500
Weight	Unit weight	kg	2800	2950	3450	3600	4350
	Gross weight	kg	2900	3050	3550	3700	4470
	Operation weight	kg	3000	3170	3690	3880	4680

MODEL			CI0810PWNC	CI0860PWNC	CI0960PWNC
Cooling capacity		RT	230	245	275
		kW	810	860	966
Power input		kW	142.0	153.0	172.0
Max power input		kW	200	216	246
COP		kW/kW	5.70	5.62	5.62
Starting current		A	619	633	909
Max. running current		A	338	366	410
Compressor	Type		2		
	Quantity		Semi-Hermetic screw chiller		
Capacity control			12.5%~100%		
Power supply		Ph/V/Hz	3N~/380V/50Hz		
Controller type			PLC		
Refrigerant throttle type			Electronic expansion vavle		
Refrigerant	Type		R134a		
Evaporator	Type		flooded type		
	Water inlet/outlet temp.	℃	12℃/7℃		
	Rated water flow	m^3/h	139	148	166
	Water side resistance	kPa	65	52	65
	Inlet/outlet pipe	DN(mm)	150	150	150
	Water dirt coefficient	$m^2.℃/kW$	0.018		
	Standard pressure	MPa	1.0		
Condenser	Type		Shell&tube heat exchanger		
	Water inlet/outlet temp.	℃	30℃/35℃		
	Rated water flow	m^3/h	164	174	196
	Water side resistance	kPa	96	80	74
	Inlet/outlet pipe	DN(mm)	150	150	150
	Water dirt coefficient	$m^2.℃/kW$	0.044		
	Standard pressure	MPa	1.0		
External dimension	Unit length	mm	4600	4600	4600
	Unit width	mm	2000	2050	2050
	Unit height	mm	2050	2150	2250
Package dimension	Unit length	mm	4800	4800	4800
	Unit width	mm	2100	2150	2150
	Unit height	mm	2400	2500	2600
Weight	Unit weight	kg	5150	5250	5600
	Gross weight	kg	5300	5400	5750
	Operation weight	kg	5500	5620	5990

Note: Due to our policy of innovation, some specifications may be changed without notification.

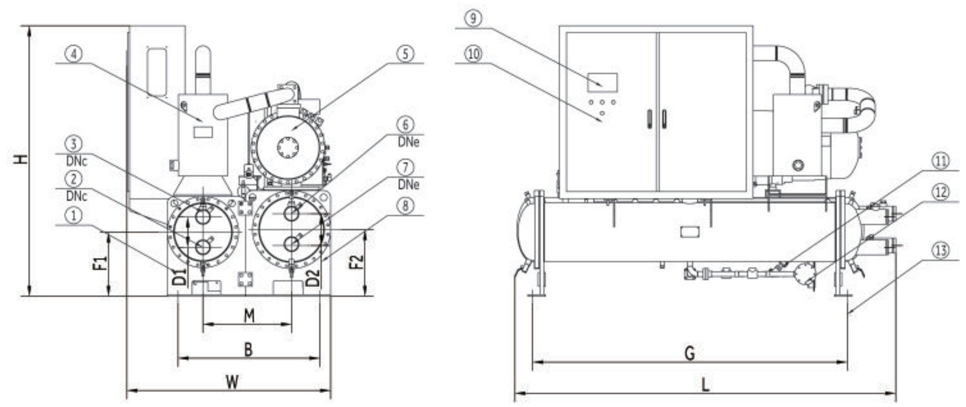
MODEL			CI1070PWNC	CI1160PWNC	CI1350PWNC
Cooling capacity		RT	306	330	384
		kW	1075	1160	1350
Power input		kW	190.0	205.0	232.0
Max power input		kW	272	290	336
COP		kW/kW	5.66	5.66	5.82
Starting current		A	930	946	1048
Max. running current		A	452	484	560
Compressor	Type		2		
	Quantity		Semi-Hermetic screw chiller		
Capacity control			12.5%~100%		
Power supply		Ph/V/Hz	3N~/380V/50Hz		
Controller type			PLC		
Refrigerant throttle type			Electronic expansion vavle		
Refrigerant	Type		R134a		
Evaporator	Type		flooded type		
	Water inlet/outlet temp.	°C	12°C/7°C		
	Rated water flow	m^3/h	185	200	232
	Water side resistance	kPa	99	100	66
	Inlet/outlet pipe	DN(mm)	200	200	200
	Water dirt coefficient	$m^2.°C/kW$	0.018		
	Standard pressure	MPa	1.0		
Condenser	Type		Shell&tube heat exchanger		
	Water inlet/outlet temp.	°C	30°C/35°C		
	Rated water flow	m^3/h	218	235	272
	Water side resistance	kPa	99	101	65
	Inlet/outlet pipe	DN(mm)	200	200	200
	Water dirt coefficient	$m^2.°C/kW$	0.044		
	Standard pressure	MPa	1.0		
External dimension	Unit length	mm	5850	5850	5850
	Unit width	mm	2100	2100	2150
	Unit height	mm	2400	2450	2450
Package dimension	Unit length	mm	6050	6050	6050
	Unit width	mm	2200	2200	2250
	Unit height	mm	2750	2800	2800
Weight	Unit weight	kg	7900	8100	8400
	Gross weight	kg	8080	8280	8580
	Operation weight	kg	8350	8570	8920

MODEL			CI1540PWNC	CI1680PWNC	CI1970PWNC	CI2085PWNC
Cooling capacity		RT	438	478	560	593
		kW	1540	1680	1970	2087
Power input		kW	268.0	300.0	337.8	372.9
Max power input		kW	400	444	500	540
COP		kW/kW	5.75	5.60	5.83	5.60
Starting current		A	1353	1389	1560	1794
Max. running current		A	686	758	800	920
Compressor	Type		2			
	Quantity		Semi-Hermetic screw chiller			
Capacity control			12.5%~100%			
Power supply		Ph/V/Hz	3N~/380V/50Hz			
Controller type			PLC			
Refrigerant throttle type			Electronic expansion vavle			
Refrigerant	Type		R134a			
Evaporator	Type		flooded type			
	Water inlet/outlet temp.	°C	12°C/7°C			
	Rated water flow	m^3/h	265	289	339	359
	Water side resistance	kPa	68	74	81	82
	Inlet/outlet pipe	DN(mm)	200	200	200	200
	Water dirt coefficient	$m^2.°C/kW$	0.018			
	Standard pressure	MPa	1.0			
Condenser	Type		Shell&tube heat exchanger			
	Water inlet/outlet temp.	°C	30°C/35°C			
	Rated water flow	m^3/h	311	341	397	423
	Water side resistance	kPa	76	84	94	97
	Inlet/outlet pipe	DN(mm)	200	200	200	200
	Water dirt coefficient	$m^2.°C/kW$	0.044			
	Standard pressure	MPa	1.0			
External dimension	Unit length	mm	6050	6050	6250	6250
	Unit width	mm	2200	2250	2250	2300
	Unit height	mm	2450	2450	2500	2500
Package dimension	Unit length	mm	6250	6250	6450	6450
	Unit width	mm	2300	2350	2350	2400
	Unit height	mm	2800	2800	2850	2850
Weight	Unit weight	kg	9050	11110	11500	12100
	Gross weight	kg	9230	11290	11700	12300
	Operation weight	kg	9500	11580	12000	12700

Note: Due to our policy of innovation, some specifications may be changed without notification.

Unit Dimension Diagram

Single compressor unit

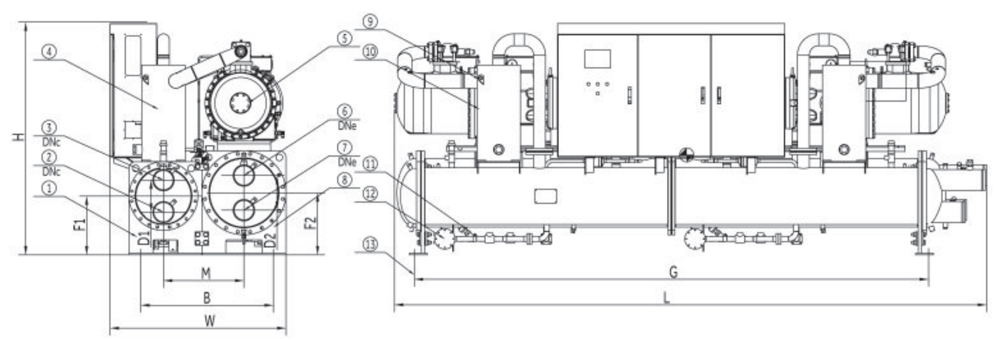


① Condenser
② Condenser water inlet
③ Condenser water outlet
④ Oil separator
⑤ Compressor
⑥ Evaporator water outlet
⑦ Evaporator water inlet
⑧ Evaporator
⑨ Display screen
⑩ Electric control box
⑪ Electric expansion valve
⑫ Dry filter
⑬ 4-Φ22 Foundation bolt

Model	Dimension mm			Installation Dimension mm		Pipe Connection Dimension mm						
	L	W	H	B	G	D1	D2	F1	F2	M	DNe	DNc
CI0350PWNC	2850	1600	1900	985	2262	220	230	605	625	640	DN100	DN100
CI0425PWNC	2850	1700	1950	1035	2262	220	240	605	625	640	DN125	DN125
CI0530PWNC	2850	1850	2000	1085	2262	220	260	605	625	640	DN125	DN125
CI0670PWNC	2850	1900	2050	1135	2262	220	260	625	665	685	DN125	DN125
CI0750PWNC	3150	2050	2150	1135	2762	240	240	625	665	685	DN150	DN150

Note: In consideration of continuous improvement of products, the size of the unit may be changed

The double compressors unit

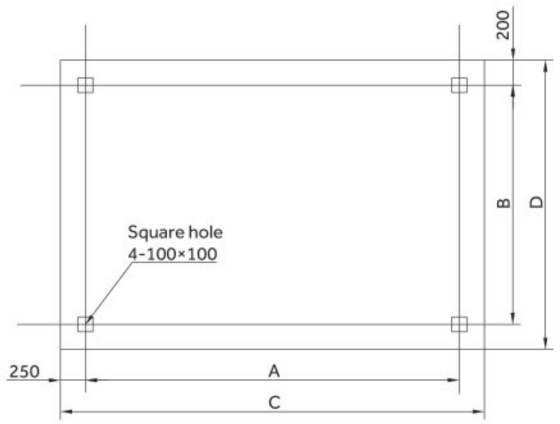


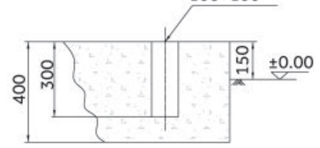
① Condenser
② Condenser water inlet
③ Condenser water outlet
④ Oil separator
⑤ Compressor
⑥ Evaporator water outlet
⑦ Evaporator water inlet
⑧ Evaporator
⑨ Display screen
⑩ Electric control box
⑪ Electric expansion valve
⑫ Dry filter
⑬ 4-Φ22 Foundation bolt

Model	Dimension mm			Installation Dimension mm		Pipe Connection Dimension mm						
	L	W	H	B	G	D1	D2	F1	F2	M	DNe	DNc
CI0810PWNC	4600	2000	2050	1035	3835	240	260	660	685	700	DN150	DN150
CI0860PWNC	4600	2050	2150	1035	3835	240	260	660	685	700	DN150	DN150
CI0960PWNC	4600	2050	2250	1085	3835	240	260	685	710	700	DN150	DN150
CI1070PWNC	5850	2100	2400	1085	4435	240	260	685	710	700	DN200	DN200
CI1160PWNC	5850	2100	2450	1185	4435	260	330	710	720	755	DN200	DN200
CI1350PWNC	5850	2150	2450	1185	4435	280	360	720	730	830	DN200	DN200
CI1540PWNC	6050	2200	2450	1235	4435	300	360	730	740	860	DN200	DN200
CI1680PWNC	6050	2250	2450	1235	4435	300	360	730	740	880	DN200	DN200
CI1970PWNC	6250	2250	2500	1335	4435	320	380	740	750	880	DN200	DN200
CI2085PWNC	6250	2300	2500	1335	4435	320	380	740	750	880	DN200	DN200

Note: In consideration of continuous improvement of products, the size of the unit may be changed

The Unit Installation Foundation Drawing





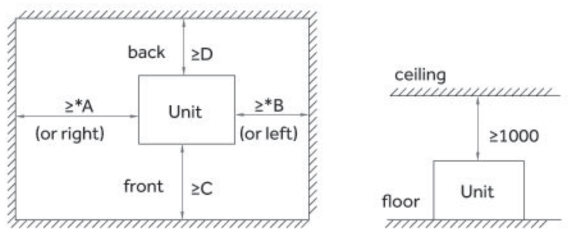
Reserved square hole on the base diagram

Dimmension:mm

Model \ Code	Installation dimension A	B	C	D
CI0350PWNC	2262	985	2762	1385
CI0425PWNC	2262	1035	2762	1435
CI0530PWNC	2262	1085	2762	1485
CI0670PWNC	2262	1135	2762	1535
CI0750PWNC	2762	1135	3262	1535
CI0810PWNC	3835	1035	4335	1435
CI0860PWNC	3835	1035	4335	1435
CI0960PWNC	3835	1085	4335	1485
CI1070PWNC	4435	1085	4935	1485
CI1160PWNC	4435	1185	4935	1585
CI1350PWNC	4435	1185	4935	1585
CI1540PWNC	4435	1235	4935	1635
CI1680PWNC	4435	1235	4935	1635
CI1970PWNC	4435	1335	4935	1735
CI2085PWNC	4435	1335	4935	1735

Reserved Space Size

Single compressor unit

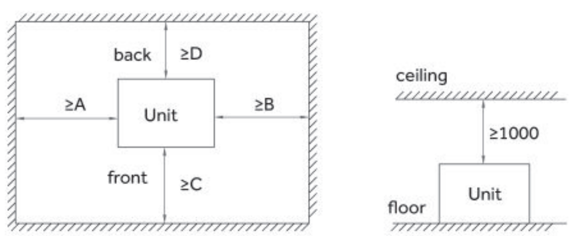


Dimmension:mm

Model	A	B	C	D
CI0350PWNC	2200	1000	1000	800
CI0425PWNC	2200	1000	1000	800
CI0530PWNC	2200	1000	1000	800
CI0670PWNC	2200	1000	1000	800
CI0750PWNC	2700	1000	1000	800

Note: Marking* stands for the reserved size for the right side of the standard, the left side over to the contrary

Double compressor unit



Dimmension:mm

Model	A	B	C	D
CI0810PWNC	1900	1900	1200	800
CI0860PWNC	1900	1900	1200	800
CI0960PWNC	1900	1900	1200	800
CI1070PWNC	2200	2200	1200	800
CI1160PWNC	2200	2200	1200	800
CI1350PWNC	2200	2200	1200	800
CI1540PWNC	2200	2200	1200	800
CI1680PWNC	2200	2200	1200	800
CI1970PWNC	2200	2200	1200	800
CI2085PWNC	2200	2200	1200	800

Note: In consideration of continuous improvement of products, the size of the unit may be changed

Cooling Capacity and Power Input Table

Chilled water oulet temp. (°C)	Condenser water inlet temperature(°C) 26 Cooling capacity	26 Power input	28 Cooling capacity	28 Power input	30 Cooling capacity	30 Power input	32 Cooling capacity	32 Power input	34 Cooling capacity	34 Power input	35 Cooling capacity	35 Power input
5	0.97	0.92	0.95	0.95	0.92	0.99	0.90	1.03	0.88	1.07	0.87	1.09
6	1.00	0.92	0.98	0.96	0.96	0.99	0.94	1.03	0.92	1.07	0.91	1.09
7	1.04	0.93	1.02	0.96	1.00	1.00	0.98	1.04	0.96	1.08	0.94	1.10
8	1.08	0.93	1.06	0.97	1.03	1.00	1.01	1.04	0.99	1.08	0.97	1.10
9	1.11	0.94	1.09	0.97	1.07	1.01	1.04	1.05	1.02	1.09	1.00	1.11

R134a Water-cooled Screw Chiller

Water cooled/Cooling only (normal efficiency series)
Cooling capacity range from 335kW up to 2087kW

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Options/Accessories

Accessories		Standard	Optional
Power supply		3N~/380V/50Hz	3N~/380V/60Hz; 3N~/400V/50Hz; 3N~/460V/60Hz
Communication protocal		X	Modbus/BACnet
Water inlet/outlet connection type	≤800RT	Victaulic	Flange
	>800RT	Flange	/
Thermal insulation thickness		30mm	25mm/40mm
Water side working pressure		1.0Mpa	1.6Mpa/2.5Mpa
ASME pressure vessel		X	√
Chilled water flowmeter		X	√
Automatic online rubber ball cleaning device		X	√
Channel steel base		X	√
Heat recovery		X	Partial heat recovery(Hot water outlet temperature is no more than 40°C, heat recovery efficiency is about 10%)

Specification

MODEL			CI0335PWND	CI0410PWND	CI0530PWND	CI0660PWND	CI0735PWND
Cooling capacity		RT	95	117	150	188	209
		kW	335	410	528	660	735
Power input		kW	67	81	101	125	143
COP		kW/kW	5.00	5.06	5.23	5.28	5.14
Starting current		A	450	450	704	768	1010
Max power input		W	89	108	136	168	200
Max. running current		A	150	183	226	280	343
Safe protection			Overload protection; water-lack delay protection; automatic antifreezing protection, phase lack & sequence protection,low pressure protection; high pressure protection; Exhaust temperature protection; oil pressure difference protection, low oil level protection; pressure relief valve.				
Compressor	Type		Semi-Hermetic screw chiller				
	Quantity		1				
Power supply			3N~/380V/50Hz				
Refrigerant throttle type			Orifice plate				
Capacity control			25%, 50%, 75%, 100%				
Controller type			Fully automatic control by Microcomputer controller				
Refrigerant	Type		R134a				
Evaporator	Type		Flooded type				
	Water inlet/outlet temp	°C	12°C/7°C				
	Inlet/outlet pipe	DN(mm)	100	125	125	125	150
	Rated water flow	m³/h	58	71	91	114	126
	Water dirt coefficient	m².°C/kW	0.018				
	Standard pressure	MPa	1.0				
	Water side resistance	kPa	30	29	40	45	39
Condenser	Type		Shell & Tube heat exchanger				
	Water inlet/outlet temp	°C	30°C/35°C				
	Inlet/outlet pipe	DN(mm)	100	125	125	125	150
	Rated water flow	m³/h	69	84	108	135	151
	Water dirt coefficient	m².°C/kW	0.044				
	Standard pressure	MPa	1.0				
	Water side resistance	kPa	27	29	54	55	41
External dimension	Unit length	mm	2850	2850	3400	3400	3650
	Unit width	mm	1600	1700	1850	1900	2050
	Unit height	mm	1900	1950	2000	2050	2150
Package dimension	Unit length	mm	3050	3050	3600	3600	3850
	Unit width	mm	1700	1800	1950	2000	2150
	Unit height	mm	2250	2300	2350	2400	2500
Weight	Unit weight	kg	2700	2850	3300	3450	3800
	Gross weight	kg	2800	2950	3400	3550	3920
	Operation weight	kg	2900	3070	3500	3670	4020

Note: Due to our policy of innovation, some specifications may be changed without notification.

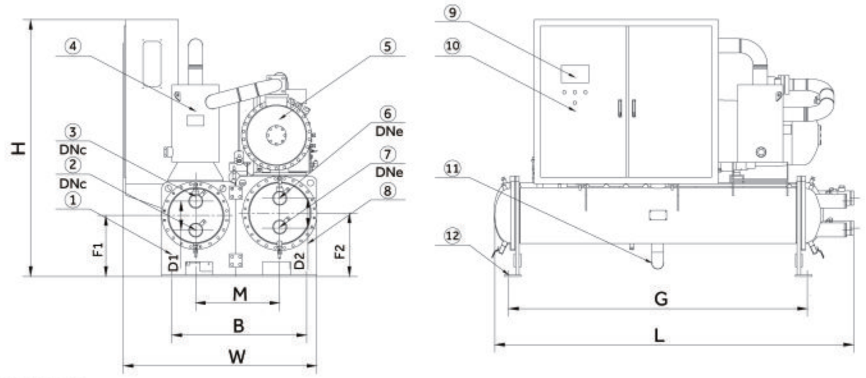
MODEL			CI0800PWND	CI0850PWND	CI0965PWND	CI1075PWND	CI1160PWND
Cooling capacity		RT	227	242	275	306	330
		kW	800	850	966	1075	1160
Power input		kW	149	160	181	200	216
COP		kW/kW	5.37	5.31	5.34	5.38	5.37
Starting current		A	619	633	909	930	946
Max power input		W	200	216	246	272	290
Max. running current		A	338	366	410	452	484
Safe protection			Overload protection; water-lack delay protection; automatic antifreezing protection, phase lack & sequence protection,low pressure protection; high pressure protection; Exhaust temperature protection; oil pressure difference protection, low oil level protection; pressure relief valve.				
Compressor	Type		Semi-Hermetic screw chiller				
	Quantity		2				
Power supply			3N~/380V/50Hz				
Refrigerant throttle type			Orifice plate				
Capacity control			12.5%, 25%, 37.5%, 50%, 62.5%, 75%, 87.5%, 100%				
Controller type			Fully automatic control by Microcomputer controller				
Refrigerant	Type		R134a				
Evaporator	Type		Flooded type				
	Water inlet/outlet temp	°C	12°C/7°C				
	Inlet/outlet pipe	DN(mm)	150	150	150	200	200
	Rated water flow	m^3/h	138	146	166	185	200
	Water dirt coefficient	$m^2.°C/kW$	0.018				
	Standard pressure	MPa	1.0				
	Water side resistance	kPa	78	97	96	99	98
Condenser	Type		Shell & Tube heat exchanger				
	Water inlet/outlet temp	°C	30°C/35°C				
	Inlet/outlet pipe	DN(mm)	150	150	150	200	200
	Rated water flow	m^3/h	163	174	197	219	237
	Water dirt coefficient	$m^2.°C/kW$	0.044				
	Standard pressure	MPa	1.0				
	Water side resistance	kPa	81	107	100	102	100
External dimension	Unit length	mm	4000	4600	4600	4850	4850
	Unit width	mm	2000	2050	2050	2100	2100
	Unit height	mm	2050	2150	2250	2400	2450
Package dimension	Unit length	mm	4200	4800	4800	5050	5050
	Unit width	mm	2100	2150	2150	2200	2200
	Unit height	mm	2400	2500	2600	2750	2800
Weight	Unit weight	kg	4800	5050	5350	7600	7900
	Gross weight	kg	4950	5200	5500	7780	8080
	Operation weight	kg	5100	5400	5720	8050	8370

MODEL			CI1350PWND	CI1540PWND	CI1680PWND	CI1970PWND	CI2085PWND
Cooling capacity		RT	384	438	478	560	593
		kW	1350	1540	1680	1970	2087
Power input		kW	250	274	305	344	376
COP		kW/kW	5.4	5.62	5.51	5.72	5.55
Starting current		A	1048	1353	1389	1560	1794
Max power input		W	336	400	444	500	540
Max. running current		A	560	686	758	800	920
Safe protection			Overload protection; water-lack delay protection; automatic antifreezing protection, phase lack & sequence protection,low pressure protection; high pressure protection; Exhaust temperature protection; oil pressure difference protection, low oil level protection; pressure relief valve.				
Compressor	Type		Semi-Hermetic screw chiller				
	Quantity		2				
Power supply			3N~/380V/50Hz				
Refrigerant throttle type			Orifice plate				
Capacity control			12.5%, 25%, 37.5%, 50%, 62.5%, 75%, 87.5%, 100%				
Controller type			Fully automatic control by Microcomputer controller				
Refrigerant	Type		R134a				
Evaporator	Type		Flooded type				
	Water inlet/outlet temp	°C	12°C/7°C				
	Inlet/outlet pipe	DN(mm)	200	200	200	200	200
	Rated water flow	m^3/h	232	265	289	339	359
	Water dirt coefficient	$m^2.°C/kW$	0.018				
	Standard pressure	MPa	1.0				
	Water side resistance	kPa	99	100	100	100	99
Condenser	Type		Shell & Tube heat exchanger				
	Water inlet/outlet temp	°C	30°C/35°C				
	Inlet/outlet pipe	DN(mm)	200	200	200	200	200
	Rated water flow	m^3/h	275	312	341	398	424
	Water dirt coefficient	$m^2.°C/kW$	0.044				
	Standard pressure	MPa	1.0				
	Water side resistance	kPa	109	101	99	100	105
External dimension	Unit length	mm	4850	6050	6050	6250	6250
	Unit width	mm	2150	2200	2250	2250	2300
	Unit height	mm	2450	2450	2450	2500	2500
Package dimension	Unit length	mm	5050	6250	6250	6450	6450
	Unit width	mm	2250	2300	2350	2350	2400
	Unit height	mm	2800	2800	2800	2850	2850
Weight	Unit weight	kg	8200	8900	10800	11300	11800
	Gross weight	kg	8380	9080	10980	11500	12000
	Operation weight	kg	8690	9400	11320	11840	12360

Note: Due to our policy of innovation, some specifications may be changed without notification.

Unit Dimension Diagram

Single compressor unit



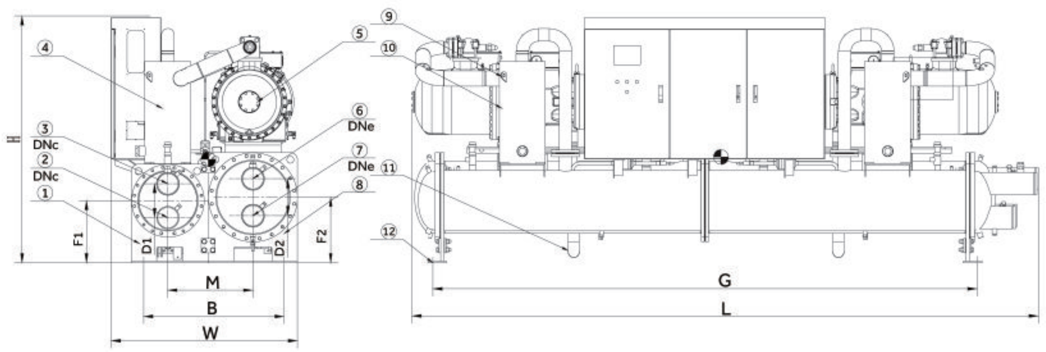
① Condenser
② Condenser water inlet
③ Condenser water outlet
④ Oil separator
⑤ Compressor
⑥ Evaporator water outlet
⑦ Evaporator water inlet
⑧ Evaporator
⑨ Display screen
⑩ Electric control cabinet
⑪ Orifice plate
⑫ 4-Ø22 foundation bolt

Dimmension:mm

Code / Model	Dimension			Installation dimension		Dimension of pipe						
	L	W	H	B	G	D1	D2	F1	F2	M	DNe	DNc
CI0335PWND	2850	1600	1900	985	2262	220	230	485	515	640	DN100	DN100
CI0410PWND	2850	1700	1950	1035	2262	220	240	485	515	640	DN125	DN125
CI0530PWND	3400	1850	2000	1085	2762	220	260	485	515	640	DN125	DN125
CI0660PWND	3400	1900	2050	1135	2762	220	260	520	590	685	DN125	DN125
CI0735PWND	3650	2050	2150	1135	2762	240	240	520	590	725	DN150	DN150

Note: In consideration of continuous improvement of products, the size of the unit may be changed

The double compressors unit



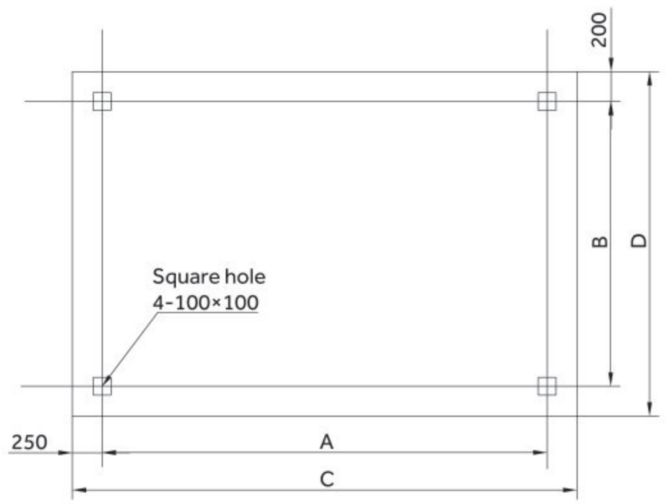
① Condenser
② Condenser water inlet
③ Condenser water outlet
④ Oil separator
⑤ Compressor
⑥ Evaporator water outlet
⑦ Evaporator water inlet
⑧ Evaporator
⑨ Display screen
⑩ Electric control cabinet
⑪ Orifice plate
⑫ 4-Ø22 foundation bolt

Dimmension:mm

Code / Model	Dimension			Installation dimension		Dimension of pipe						
	L	W	H	B	G	D1	D2	F1	F2	M	DNe	DNc
CI0800PWND	4000	2000	2050	1035	3235	230	240	680	700	700	DN150	DN150
CI0850PWND	4600	2050	2150	1035	3835	230	240	680	700	700	DN150	DN150
CI0965PWND	4600	2050	2250	1085	3835	240	260	680	725	725	DN150	DN150
CI1075PWND	4850	2100	2400	1085	3835	240	260	750	775	850	DN200	DN200
CI1160PWND	4850	2100	2450	1185	3835	260	330	700	750	775	DN200	DN200
CI1350PWND	4850	2150	2450	1185	3835	280	360	750	775	850	DN200	DN200
CI1540PWND	6050	2200	2450	1235	4435	300	360	750	775	850	DN200	DN200
CI1680PWND	6050	2250	2450	1235	4435	300	360	750	775	850	DN200	DN200
CI1970PWND	6250	2250	2500	1335	4435	320	380	750	775	850	DN200	DN200
CI2085PWND	6250	2300	2500	1335	4435	320	380	750	775	850	DN200	DN200

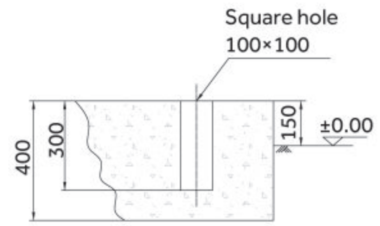
Note: In consideration of continuous improvement of products, the size of the unit may be changed

The Unit Installation Foundation Drawing



Dimmension:mm

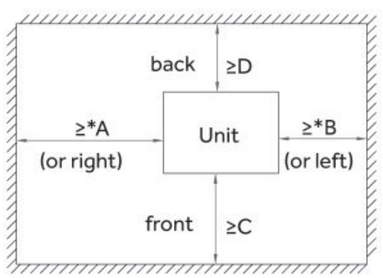
Model \ Code	Installation dimension A	B	C	D
CI0335PWND	2262	985	2762	1385
CI0410PWND	2262	1035	2762	1435
CI0530PWND	2762	1085	3262	1485
CI0660PWND	2762	1135	3262	1535
CI0735PWND	2762	1135	3262	1535
CI0800PWND	3235	1035	3735	1435
CI0850PWND	3835	1035	4335	1435
CI0965PWND	3835	1085	4335	1485
CI1075PWND	3835	1085	4335	1485
CI1160PWND	3835	1185	4335	1585
CI1350PWND	3835	1185	4335	1585
CI1540PWND	4435	1235	4935	1635
CI1680PWND	4435	1235	4935	1635
CI1970PWND	4435	1335	4935	1735
CI2085PWND	4435	1335	4935	1735

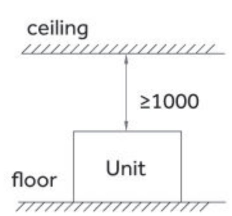


Reserved square hole on the base diagram

Reserved Space Size

Single compressor unit





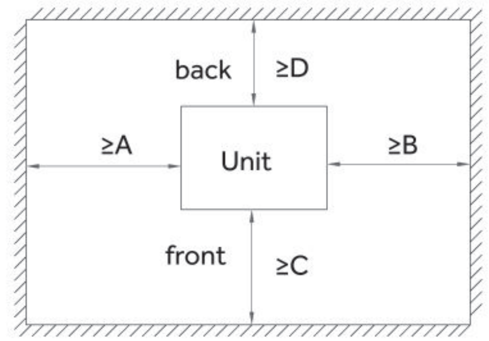
Dimmension:mm

Model \ Code	A	B	C	D
CI0335PWND	2200	1000	1000	800
CI0410PWND	2200	1000	1000	800
CI0530PWND	2700	1000	1000	800
CI0660PWND	2700	1000	1000	800
CI0735PWND	2700	1000	1000	800

Note: Marking* stands for the reserved size for the right side of the standard, the left side over to the contrary

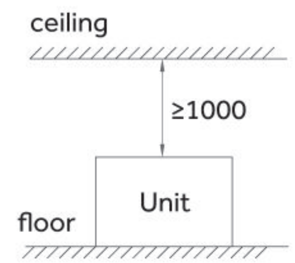
Reserved Space Size

Double compressor unit



Dimmension:mm

Model \ Code	A	B	C	D
CI0800PWND	1600	1600	1200	800
CI0850PWND	1900	1900	1200	800
CI0965PWND	1900	1900	1200	800
CI1075PWND	1900	1900	1200	800
CI1160PWND	1900	1900	1200	800
CI1350PWND	1900	1900	1200	800
CI1540PWND	2200	2200	1200	800
CI1680PWND	2200	2200	1200	800
CI1970PWND	2200	2200	1200	800
CI2085PWND	2200	2200	1200	800

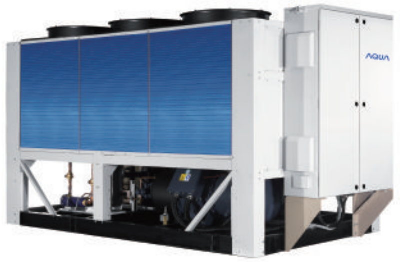


Note: In consideration of continuous improvement of products, the size of the unit may be changed

Cooling Capacity and Power Input Table

Chilled water oulet temp. (℃)	Condenser water inlet temperature(℃) 26		28		30		32		34		35	
	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input	Cooling capacity	Power input
5	0.97	0.92	0.95	0.95	0.92	0.99	0.90	1.03	0.88	1.07	0.87	1.09
6	1.00	0.92	0.98	0.96	0.96	0.99	0.94	1.03	0.92	1.07	0.91	1.09
7	1.04	0.93	1.02	0.96	1.00	1.00	0.98	1.04	0.96	1.08	0.94	1.10
8	1.08	0.93	1.06	0.97	1.03	1.00	1.01	1.04	0.99	1.08	0.97	1.10
9	1.11	0.94	1.09	0.97	1.07	1.01	1.04	1.05	1.02	1.09	1.00	1.11

AIR-COOLED SCREW CHILLER



KEY FEATURE

High Efficiency

High efficient compressor

- The unit adopts high efficient twin-screw compressor.

· High efficiency: The compressor adopt 5:6 non-symmetry bear design, large volume, high efficiency.

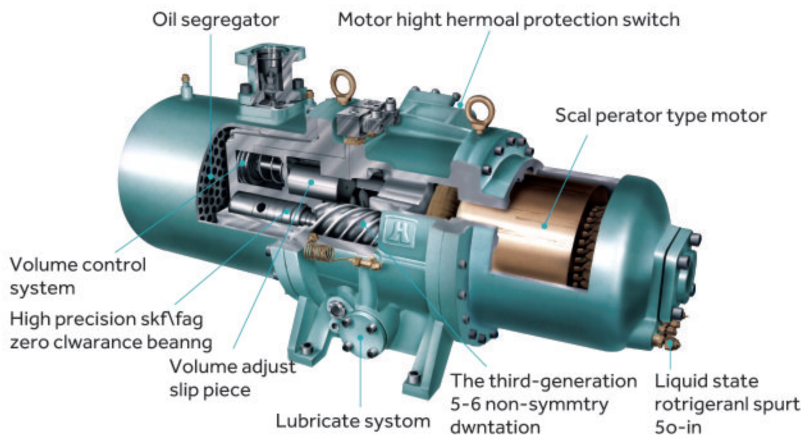
· The units adopt multi-stage adjustment, each unit can realize 25%-50%-75%-100% volume control, suit for various condition, high part load COP value.

· Motor adopts Y-Δ start method, low start current, low impact to the power network.

· High precise manufacturing process, avoid any leakage, increase the compressor efficiency.

· The inner refrigerant suction system is cooled by the refrigerant, avoid any capacity loss.

· The suction side adopt temp. insulation material, avoid any condensing and energy loss.



V-shape condenser

Condenser adopts the copper tube & hydrophilic aluminum fin coil type structure, the appearance is V type, this design increases the heat exchange area, reduces the temp. differences, thus increases the heat exchange efficiency by 20%.

EXV design

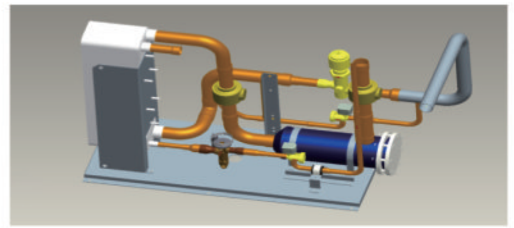
R134a air cooled screw chiller takes 3810 steps EXV to control the refrigerant flow,

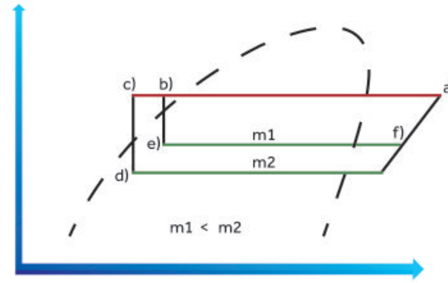
The refrigerant flow is precise according to the need, increase the COP also keep the products more stable.

High Efficiency

Economizer sub-cooling design

R134a air cooled screw chiller takes high efficiency plate heat exchanger as economizer , it sub cool the refrigerant for another 18 degrees in high pressure side , increase the capacity , so COP increase 3-5%.

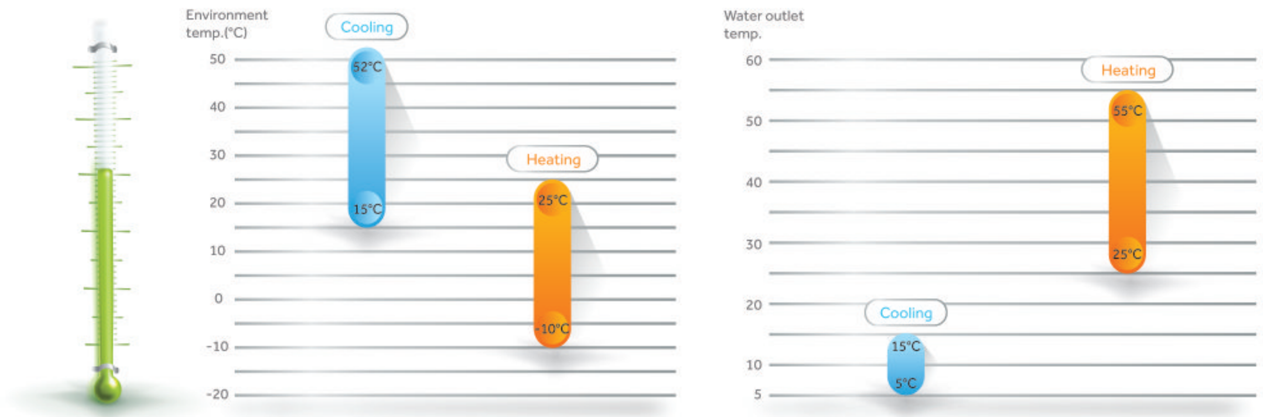




Reliability

Wide running application

Products can run under 52 high degree in cooling , even in the hot summer , in the roof, products can still run stably.



Convenience

Password design

The controller can set password , so only the administrator can operate the chiller.

Functional control screen

7 inch colorful touch screen.

Status: Water temperature, pressure/current/pump/running curve/history curve
Timer: Weekly timer
Error: Error history check
User: Local control/BMS control

Air-cooled Screw Chiller

COOLING ONLY

Air cooled/Cooling only

Cooling capacity range from 360kW up to 2480kW

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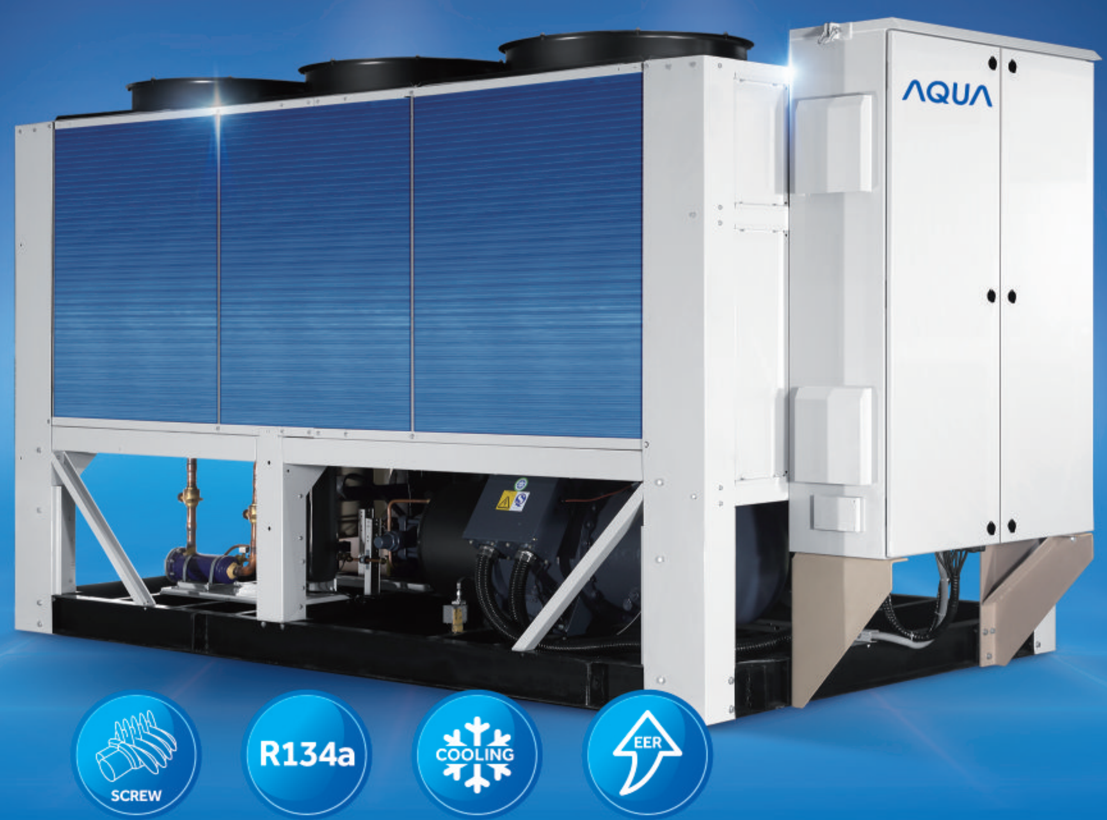


Options/Accessories

Accessories	Standard	Optional
Power supply	3N~/380V/50Hz	3N~/380V/60Hz; 3N~/400V/50Hz; 3N~/460V/60Hz
Water side working pressure	1.0Mpa	1.6Mpa/2.5Mpa
Starting mode	Y- △ start	soft start
Remote control (with signal enhancer, within 800 meters)	X	√
Capacity control	step adjustment	stepless adjustment

Specification

MODEL			CI0360PAND	CI0360PANE
Cooling	Cooling capacity	kW	360	360
	Power input	KW	114	114
	COP	KW/KW	3.15	3.15
	Running current	A	204	204
Max.Power input		KW	190	190
Max. running current		A	340	340
Power supply		Ph/V/Hz	3/380/50	
Refrigerant throttle type			Electronic expansion valve	
Capacity control			25%, 50%, 75%, 100%	
Safe protection			High and low pressure protection, safe protection, water-lack delay protection, automatic antifreezing protection, fan motor overload protection, overheating protection, phase lack & sequence protection	
Compressor	Type		Semi-Hermetic screw chiller	
	Quantity		1	1
	Input power	kW	99.6	99.6
Refrigerant	Type		R134a	
	Charge	kg	130	130
Air side heat exchanger	Type		Inner grooved copper pipe & hydrophilic aluminum fin coil	
	Fan power	kW	2.4×6	2.4×6
	Fan type		Low sound axial fan	
	Fan quantity		6	6
Water side heat exchanger	Type		Falling film	
	Rated water flow	m^3/h	61.92	61.92
	Inlet/outlet pipe	DN	150	150
	Water dirt coefficient	$m^2.°C/kW$	0.018	
	Standard pressure	MPa	1.0	
	Water resistance	kPa	43	43
External dimension	Unit length	mm	4100	4100
	Unit width	mm	2200	
	Unit height	mm	2300	
Package dimension	Unit length	mm	4250	4250
	Unit width	mm	2300	
	Unit height	mm	2400	
Weight	Unit weight	kg	3950	3950
	Gross weight	kg	4000	4000
	Operation weight	kg	4130	4130

MODEL			CI0480PAND	CI0480PANE	CI0620PAND	CI0620PANE
Cooling	Cooling capacity	kW	480	480	620	620
	Power input	KW	152	152	197	197
	COP	KW/KW	3.15	3.15	3.15	3.15
	Running current	A	268	268	348	348
Max.Power input		KW	256	256	315	315
Max. running current		A	450	450	558	558
Power supply		Ph/V/Hz	3/380/50			
Refrigerant throttle type			Electronic expansion valve			
Capacity control			25%, 50%, 75%, 100%			
Safe protection			High and low pressure protection, safe protection, water-lack delay protection, automatic antifreezing protection, fan motor overload protection, overheating protection, phase lack & sequence protection			
Compressor	Type		Semi-Hermetic screw chiller			
	Quantity		1	1	1	1
	Input power	kW	132.8	132.8	173	173
Refrigerant	Type		R134a			
	Charge	kg	150	150	180	180
Air side heat exchanger	Type		Inner grooved copper pipe & hydrophilic aluminum fin coil			
	Fan power	kW	2.4×8	2.4×8	2.4×10	2.4×10
	Fan type		Low sound axial fan			
	Fan quantity		8	8	10	10
Water side heat exchanger	Type		Falling film			
	Rated water flow	m^3/h	82.56	82.56	106.64	106.64
	Inlet/outlet pipe	DN	150	150	150	150
	Water dirt coefficient	$m^2.°C/kW$	0.018			
	Standard pressure	MPa	1.0			
	Water resistance	kPa	45	45	52	52
External dimension	Unit length	mm	5200	5200	6300	6300
	Unit width	mm	2200			
	Unit height	mm	2300			
Package dimension	Unit length	mm	5350	5350	6450	6450
	Unit width	mm	2300			
	Unit height	mm	2400			
Weight	Unit weight	kg	5140	5140	6000	6000
	Gross weight	kg	5200	5200	6070	6070
	Operation weight	kg	5340	5340	6280	6280

Note: Due to our policy of innovation, some specification may be changed without noticfication.

Models Combinations

COOLING ONLY

Basic module	A	B	C	D	E	F
	CI0360PAND	CI0360PANE	CI0480PAND	CI0480PANE	CI0620PAND	CI0620PANE
Model	CI0720PAND	CI0840PAND	CI0960PAND	CI0980PAND	CI1080PAND	CI1100PAND
Combination	1*A+1*B	1*A+1*D	1*C+1*D	1*A+1*F	1*A+2*B	1*C+1*F
Model	CI1200PAND	CI1240PAND	CI1320PAND	CI1340PAND	CI1440PAND	CI1460PAND
Combination	1*A+1*B+1*D	1*E+1*F	1*A+2*D	1*A+1*B+1*F	1*C+2*D	1*A+1*D+1*F
Model	CI1560PAND	CI1580PAND	CI1600PAND	CI1680PAND	CI1700PAND	CI1720PAND
Combination	1*C+3*B	1*E+2*D	1*A+2*F	1*A+1*B+2*D	1*E+3*B	1*C+2*F
Model	CI1800PAND	CI1820PAND	CI1860PAND	CI1920PAND	CI1940PAND	CI1960PAND
Combination	1*A+3*D	1*C+2*B+1*F	1*E+2*F	1*C+3*D	1*A+2*D+1*F	1*A+1*B+2*F
Model	CI2060PAND	CI2080PAND	CI2200PAND	CI2220PAND	CI2340PAND	CI2480PAND
Combination	1*E+3*D	1*A+1*D+2*F	1*E+2*D+1*F	1*A+3*F	1*C+3*F	1*E+3*F

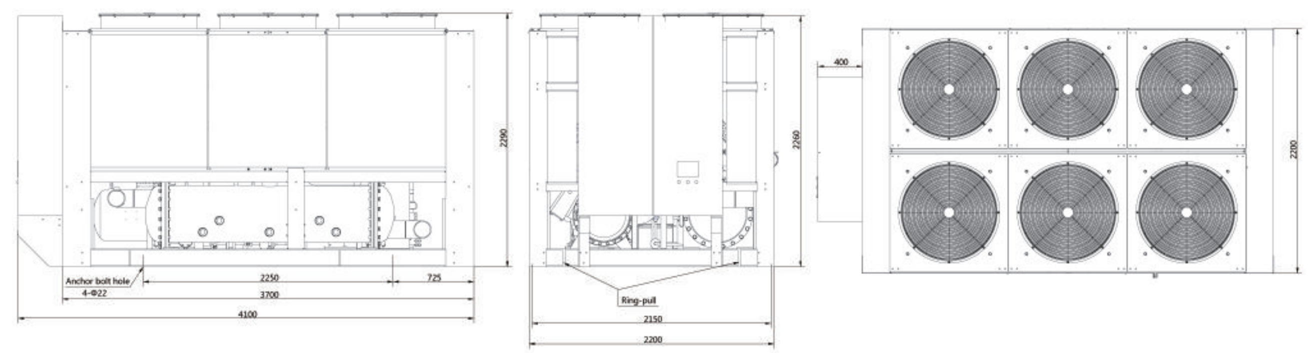
Note: 1.Main modules: A&C&E. Auxiliary modules: B&D&F. Models Combinations must be no more than 4 modules, and must be one main module and no more than 3 auxiliary modules. The largest combination cooling capacity is 2480kW.
2.Some models in the table have more than one combination scheme, customers can freely choose other combination schemes according to their own requirements."

Performance Table

Water outlet temp.(°C)	Ambient temp.(°C)	15	20	25	30	35	40	45
5	Cooling capacity(kW)	1.170	1.129	1.081	1.031	0.978	0.909	0.862
	Power input(kW)	0.696	0.754	0.819	0.892	0.976	1.063	1.174
7	Cooling capacity(kW)	1.235	1.198	1.151	1.091	1.000	0.959	0.903
	Power input(kW)	0.710	0.774	0.842	0.912	1.000	1.100	1.179
9	Cooling capacity(kW)	1.293	1.268	1.221	1.155	1.102	1.017	0.941
	Power input(kW)	0.719	0.793	0.864	0.936	1.023	1.120	1.219
11	Cooling capacity(kW)	1.366	1.341	1.282	1.227	1.159	1.074	1.006
	Power input(kW)	0.737	0.813	0.885	0.960	1.057	1.147	1.252
13	Cooling capacity(kW)	1.456	1.411	1.365	1.291	1.229	1.140	1.081
	Power input(kW)	0.765	0.828	0.907	0.988	1.074	1.182	1.258
15	Cooling capacity(kW)	1.551	1.487	1.445	1.376	1.314	1.215	1.161
	Power input(kW)	0.798	0.836	0.932	1.017	1.104	1.205	1.283

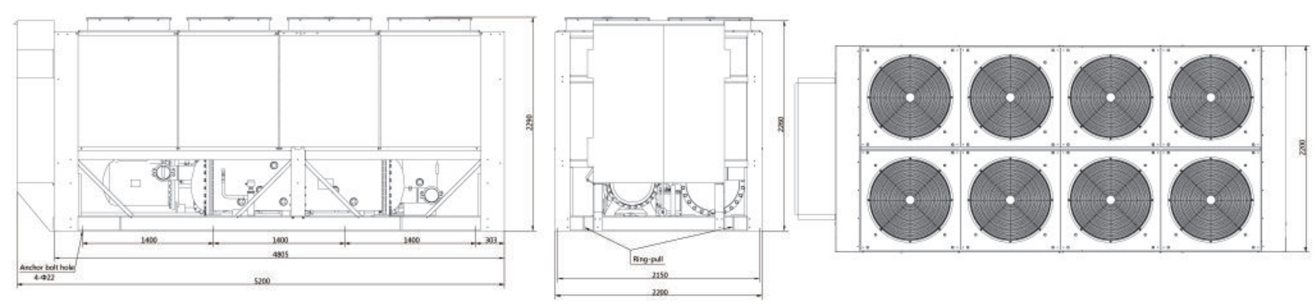
Unit Dimension Diagram

CI0360PAND CI0360PANE Unit dimension



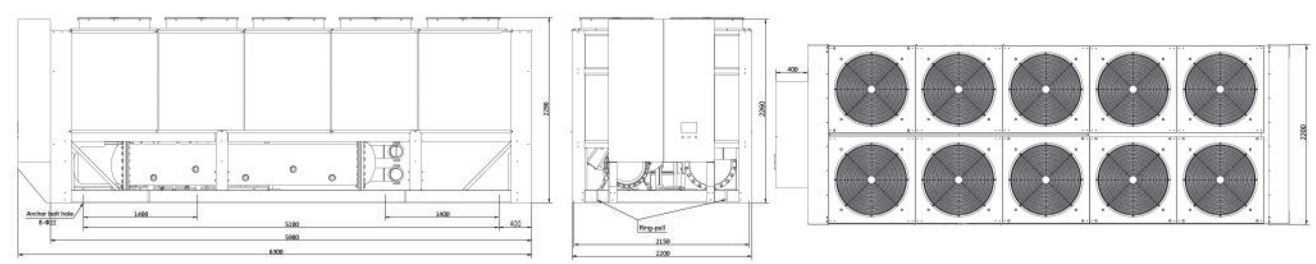
Note: In consideration of continuous improvement of products, the size of the unit may be changed

CI0480PAND CI0480PANE Unit dimension



Note: In consideration of continuous improvement of products, the size of the unit may be changed

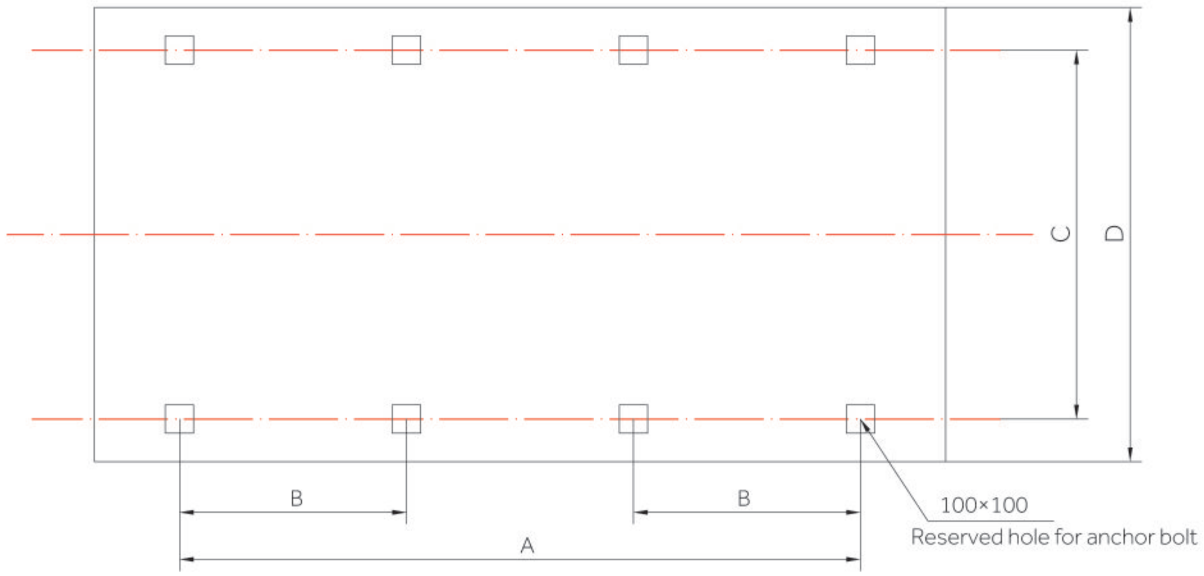
CI0620PAND CI0620PANE Unit dimension



Note: In consideration of continuous improvement of products, the size of the unit may be changed

AIR-COOLED SCREW CHILLER

The Unit Installation Foundation Drawing

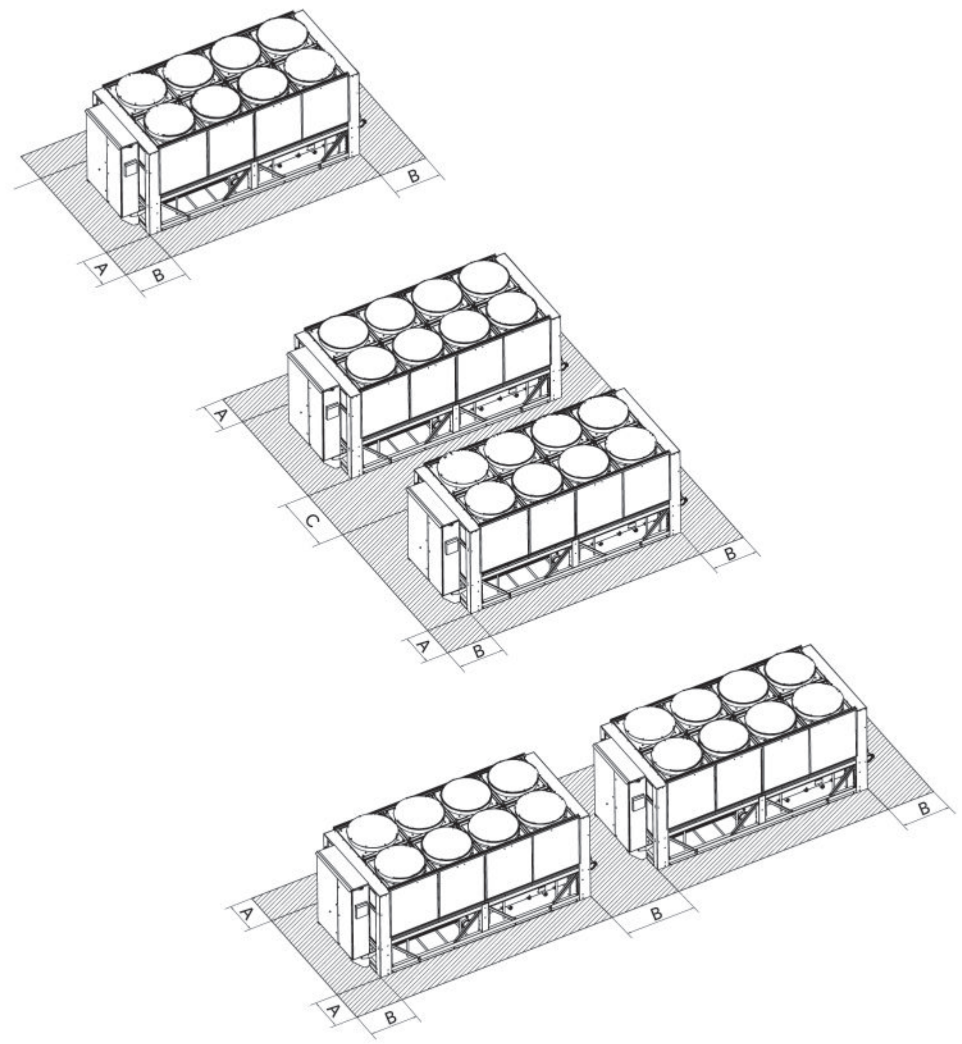


Installation space diagram (unit:mm)

Model	A	B	C	D
CI0360PAND/CI0360PANE	2250		2150	2450
CI0480PAND/CI0480PANE	4200	1400	2150	2450
CI0620PAND/CI0620PANE	5100	1400	2150	2450

Note: In consideration of continuous improvement of products, the size of the unit may be changed

Installation Space Diagram



Installation space diagram(mm)		
A	B	C
≥1500	≥1200	≥2000

Note: In consideration of continuous improvement of products, the size of the unit may be changed

Air-cooled Screw Chiller

HEAT PUMP

Air cooled/Heating pump

Cooling capacity range from 350kW up to 2400kW

Options/Accessories

Accessories	Standard	Optional
Power supply	3N~/380V/50Hz	3N~/380V/60Hz; 3N~/400V/50Hz; 3N~/460V/60Hz
Water side working pressure	1.0Mpa	1.6Mpa/2.5Mpa
Starting mode	Y- △ start	soft start
Remote control (with signal enhancer, within 800 meters)	X	√
Capacity control	step adjustment	stepless adjustment

Specification

MODEL			CI0360DAND	CI0360DANE
Cooling	Cooling capacity	kW	350	350
	Power input	kW	106	106
	Running current	A	187	187
Heating	Heating capacity	kW	375	375
	Power input	kW	110	110
	Running current	A	195	195
Max.Power input		kW	190	190
Max. running current		A	340	340
Power supply		Ph/V/Hz	3/380/50	
Refrigerant throttle type			Electronic expansion valve	
Capacity control			25%, 50%, 75%, 100%	
Safe protection			High and low pressure protection, safe protection, water-lack delay protection, automatic antifreezing protection, fan motor overload protection, overheating protection, phase lack & sequence protection	
Compressor	Type		Semi-Hermetic screw chiller	
	Quantity		1	1
	Input power	kW	91	91
Refrigerant	Type		R134a	
	Charge	kg	90	90
Air side heat exchanger	Type		Inner grooved copper pipe & hydrophilic aluminum fin coil	
	Fan power	kW	2.5*6	2.5*6
	Fan type		Axial fan	
	Fan quantity		6	6
Water side heat exchanger	Type		Dry type Shell & Tube heat exchanger	
	Rated water flow	m³/h	60	60
	Inlet/outlet pipe	DN	100	100
	Water dirt coefficient	m².°C/kW	0.018	
	Standard pressure	MPa	1.0	
	Water resistance	kPa	50	50
External dimension	Unit length	mm	3450	3450
	Unit width	mm	2050	
	Unit height	mm	2520	
Package dimension	Unit length	mm	3500	3500
	Unit width	mm	2100	
	Unit height	mm	2620	
Weight	Unit weight	kg	3660	3660
	Gross weight	kg	3710	3710
	Operation weight	kg	3840	3840

MODEL			CI0480DAND	CI0480DANE	CI0600DAND	CI0600DANE
Cooling	Cooling capacity	kW	475	475	600	600
	Power input	kW	144	144	182	182
	Running current	A	257	257	325	325
Heating	Heating capacity	kW	510	510	645	645
	Power input	kW	150	150	186	186
	Running current	A	267	267	332	332
Max.Power input		kW	256	256	315	315
Max. running current		A	450	450	558	558
Power supply		Ph/V/Hz	3/380/50			
Refrigerant throttle type			Electronic expansion valve			
Capacity control			25%, 50%, 75%, 100%			
Safe protection			High and low pressure protection, safe protection, water-lack delay protection, automatic antifreezing protection, fan motor overload protection, overheating protection, phase lack & sequence protection			
Compressor	Type		Semi-Hermetic screw chiller			
	Quantity		1	1	1	1
	Input power	kW	124	124	157	157
Refrigerant	Type		R134a			
	Charge	kg	135	135	150	150
Air side heat exchanger	Type		Inner grooved copper pipe & hydrophilic aluminum fin coil			
	Fan power	kW	2.5*8	2.5*8	2.5*10	2.5*10
	Fan type		Axial fan			
	Fan quantity		8	8	10	10
Water side heat exchanger	Type		Dry type Shell & Tube heat exchanger			
	Rated water flow	m³/h	82	82	103	103
	Inlet/outlet pipe	DN	125	125	150	150
	Water dirt coefficient	m².°C/kW	0.018			
	Standard pressure	MPa	1.0			
	Water resistance	kPa	50	50	70	70
External dimension	Unit length	mm	4600	4600	5750	5750
	Unit width	mm	2050			
	Unit height	mm	2520			
Package dimension	Unit length	mm	4600	4600	5900	5900
	Unit width	mm	2210			
	Unit height	mm	2620			
Weight	Net weight	kg	4690	4690	5600	5600
	Gross weight	kg	4750	4750	5670	5670
	Operation weight	kg	4890	4890	5820	5820

Note: Due to our policy of innovation, some specification may be changed without noticfication.

Models Combinations

HEAT PUMP

Basic module	A	B	C	D	E	F
	CI0360DAND	CI0360DANE	CI0480DAND	CI0480DANE	CI0600DAND	CI0600DANE
Model	CI0700DAND	CI0825DAND	CI0950DAND	CI1050DAND	CI1075DAND	CI1200DAND
Combination	1A+1B	1A+1D	1A+1F	1A+2B	1C+1F	1E+1F
Model	CI1300DAND	CI1400DAND	CI425DAND	CI1525DAND	CI1550DAND	CI1650DAND
Combination	1A+2D	1A+3B	1A+1D+1F	1A+2B+1D	1A+2F	1A+2B+1F
Model	CI1675DAND	CI1775DAND	CI1800DAND	CI1900DAND	CI2025DAND	C2150DAND
Combination	1C+2F	1A+3D	1E+2F	1A+1B+2F	1A+1D+2F	1A+3F
Model	CI2275DAND	CI2400DAND				
Combination	1C+3F	1E+3F				

Note: 1. Main modules: A&C&E. Auxiliary modules: B&D&F. Models Combinations must be no more than 4 modules, and must be one main module and no more than 3 auxiliary modules. The largest combination cooling capacity is 2400kW.
2. Some models in the table have more than one combination scheme, customers can freely choose other combination schemes according to their own requirements.

Performance Table

Cooling capacity and power input table

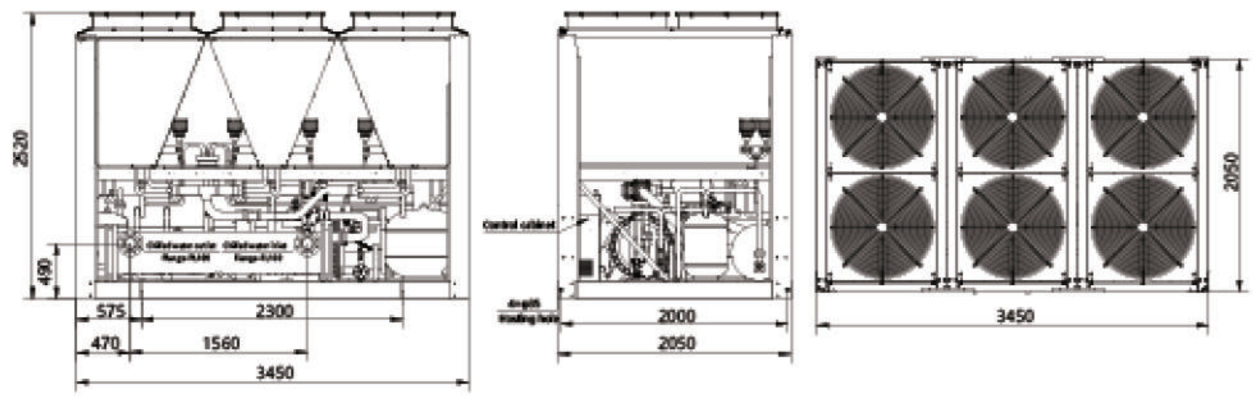
Water outlet temp.(°C)	Ambient temp.(°C)	18	21	24	27	30	33	35	38	41	43
5	Cooling capacity(kW)	1.069	1.050	1.040	1.012	0.993	0.974	0.955	0.935	0.907	0.878
	Power input capacity(kW)	0.700	0.754	0.791	0.854	0.891	0.953	0.982	1.036	1.100	1.173
6	Cooling capacity(kW)	1.090	1.070	1.061	1.032	1.012	0.993	0.973	0.954	0.925	0.895
	Power input capacity(kW)	0.706	0.761	0.798	0.862	0.899	0.962	0.991	1.046	1.110	1.184
7	Cooling capacity(kW)	1.120	1.100	1.090	1.060	1.040	1.020	1.000	0.980	0.950	0.920
	Power input capacity(kW)	0.713	0.768	0.805	0.870	0.907	0.971	1.000	1.056	1.120	1.195
8	Cooling capacity(kW)	1.157	1.137	1.126	1.095	1.075	1.054	1.033	1.013	0.982	0.951
	Power input capacity(kW)	0.720	0.776	0.814	0.879	0.917	0.981	1.011	1.067	1.132	1.207
9	Cooling capacity(kW)	1.186	1.165	1.154	1.122	1.101	1.080	1.059	1.038	1.006	0.974
	Power input capacity(kW)	0.726	0.782	0.820	0.886	0.924	0.989	1.018	1.075	1.141	1.217
10	Cooling capacity(kW)	1.213	1.192	1.181	1.148	1.127	1.105	1.083	1.062	1.029	0.997
	Power input capacity(kW)	0.729	0.785	0.823	0.890	0.928	0.993	1.022	1.079	1.146	1.221
11	Cooling capacity(kW)	1.246	1.224	1.213	1.179	1.157	1.135	1.113	1.090	1.057	1.024
	Power input capacity(kW)	0.731	0.789	0.827	0.893	0.931	0.997	1.026	1.083	1.150	1.226
12	Cooling capacity(kW)	1.277	1.254	1.243	1.209	1.186	1.163	1.140	1.118	1.083	1.049
	Power input capacity(kW)	0.738	0.796	0.834	0.901	0.940	1.006	1.036	1.093	1.160	1.237
13	Cooling capacity(kW)	1.310	1.287	1.275	1.240	1.217	1.193	1.170	1.146	1.111	1.076
	Power input capacity(kW)	0.738	0.796	0.834	0.901	0.940	1.006	1.036	1.093	1.160	1.237
14	Cooling capacity(kW)	1.343	1.319	1.307	1.271	1.247	1.223	1.199	1.175	1.139	1.103
	Power input capacity(kW)	0.747	0.806	0.845	0.913	0.952	1.019	1.049	1.107	1.175	1.253
15	Cooling capacity(kW)	1.372	1.348	1.335	1.299	1.274	1.250	1.225	1.201	1.164	1.127
	Power input capacity(kW)	0.761	0.820	0.860	0.929	0.969	1.037	1.068	1.127	1.196	1.276

Heating capacity and power input table

Water outlet temp.(°C)	Ambient temp.(°C)	-10	-5	0	5	7	10	15	21
25	Heating capacity(kW)	0.685	0.776	0.900	1.007	1.059	1.134	1.292	1.402
	Power input capacity(kW)	0.643	0.662	0.683	0.701	0.705	0.718	0.730	0.738
30	Heating capacity(kW)	0.680	0.770	0.893	1.000	1.051	1.126	1.282	1.392
	Power input capacity(kW)	0.701	0.722	0.746	0.765	0.769	0.783	0.796	0.805
35	Heating capacity(kW)	0.677	0.767	0.890	0.996	1.047	1.121	1.277	1.386
	Power input capacity(kW)	0.761	0.784	0.810	0.831	0.835	0.850	0.864	0.874
40	Heating capacity(kW)	0.672	0.762	0.883	0.988	1.039	1.113	1.268	1.376
	Power input capacity(kW)	0.840	0.865	0.893	0.916	0.921	0.938	0.953	0.964
45	Heating capacity(kW)	0.647	0.733	0.850	0.951	1.000	1.071	1.220	1.324
	Power input capacity(kW)	0.912	0.939	0.969	0.995	1.000	1.018	1.035	1.046
50	Heating capacity(kW)	0.614	0.696	0.807	0.902	0.949	1.016	1.158	1.256
	Power input capacity(kW)	1.007	1.037	1.070	1.098	1.104	1.124	1.143	1.155

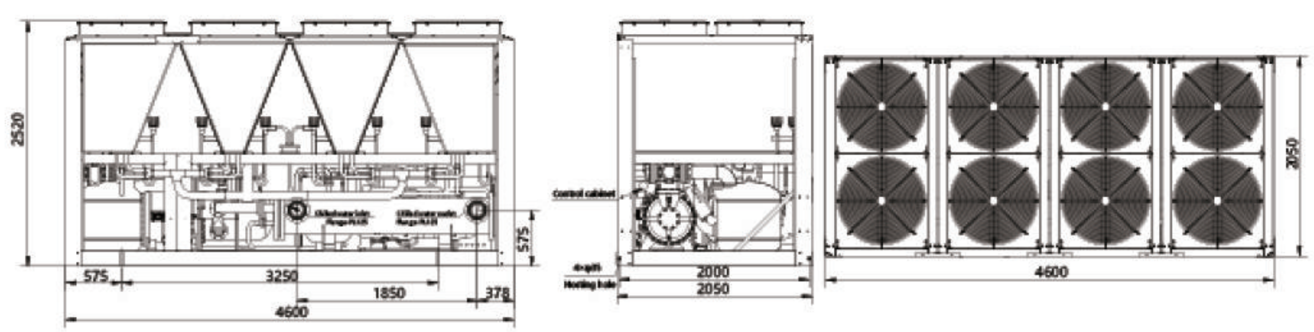
Unit Dimension Diagram

CI0360DAND CI0360DANE Unit dimension



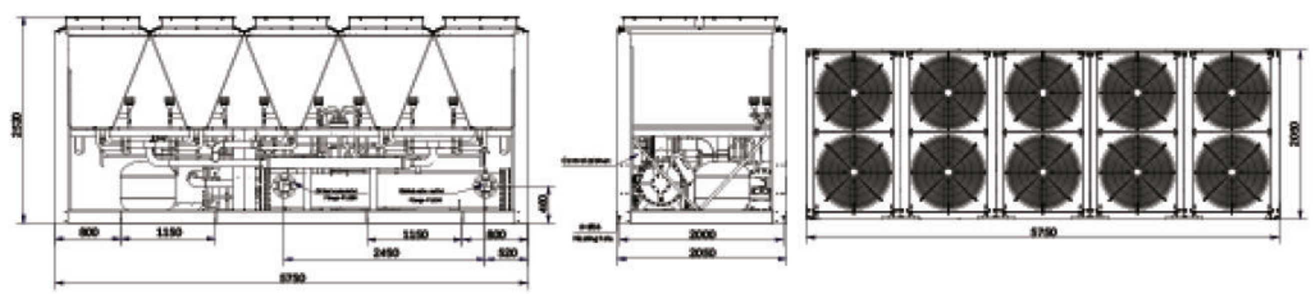
Note: In consideration of continuous improvement of products, the size of the unit may be changed

CI0480DAND CI0480DANE Unit dimension



Note: In consideration of continuous improvement of products, the size of the unit may be changed

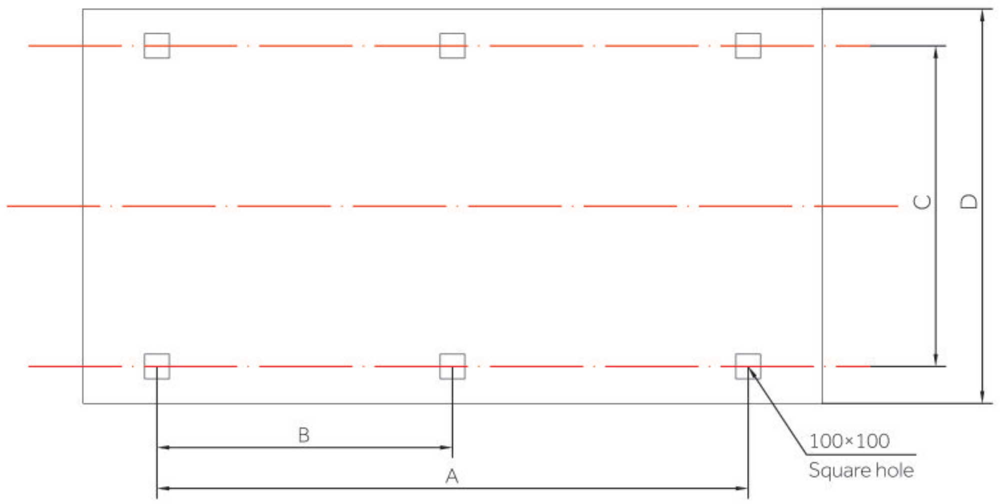
CI0600DAND CI0600DANE Unit dimension



Note: In consideration of continuous improvement of products, the size of the unit may be changed

AIR-COOLED SCREW CHILLER

The Unit Installation Foundation Drawing

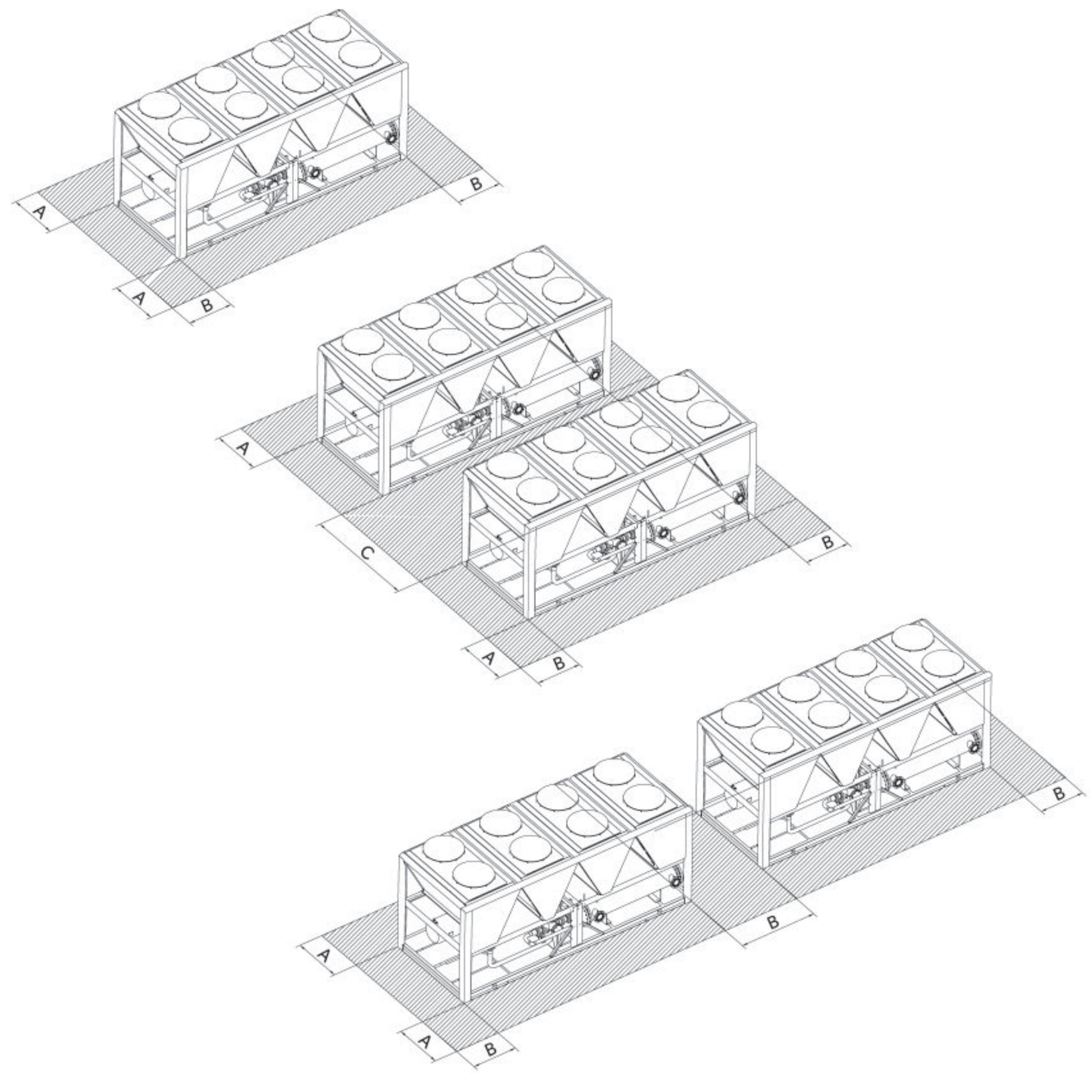


Installation space diagram (unit:mm)

Model	A	B	C	D
CI0360DAND/CI0360DANE	2100		2000	2300
CI0480DAND/CI0480DANE	3250		2000	2300
CI0600DAND/CI0600DANE	4400	2200	2000	2300

Note: In consideration of continuous improvement of products, the size of the unit may be changed

Installation Space Diagram



Installation space diagram(mm)		
A	B	C
≥1500	≥1200	≥2000

Note: In consideration of continuous improvement of products, the size of the unit may be changed

MODULAR CHILLER

Inverter Modular Chiller

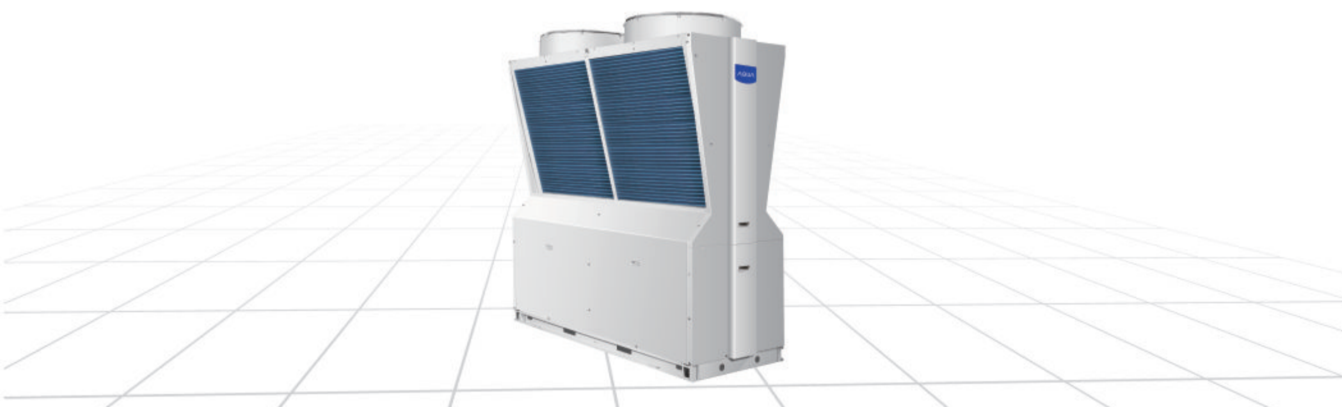
Air cooled/Heating pump
Cooling capacity range from 60kW up to 960kW

Features

Structure

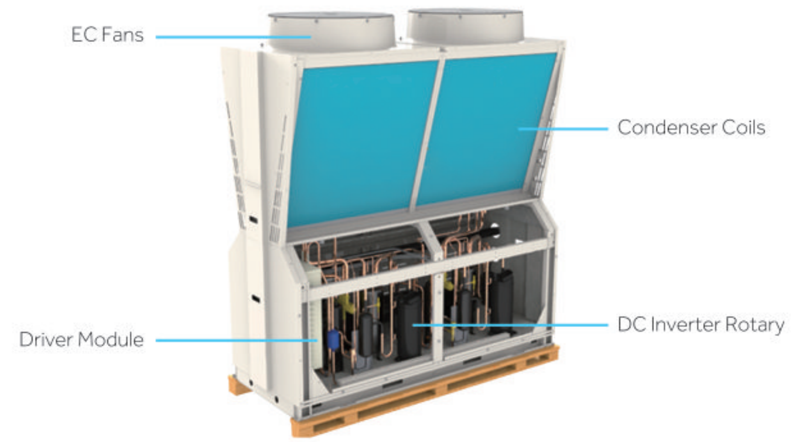
'Y' shape appearance

'Y' shape design is more fasion and increases the heat exchanger area.

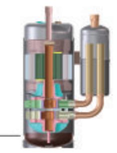


KEY FEATURE

High Efficiency



1 Compressor



The unit adopts full DC inverter rotary compressor, driven by high-efficiency permanent magnet DC motor to improve the energy efficiency greatly. The high-efficiency oil supply and oil separation parts ensure the low friction, low noise, stable and reliable operation of the compressor.

2 Motor

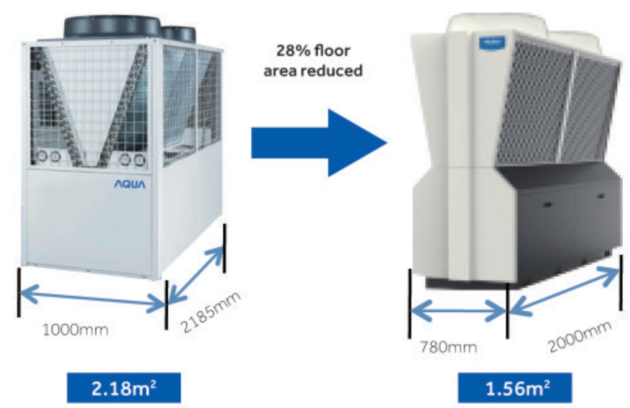
Low sound power level EC fans, together with high efficiency DC inverter motor,greatly reducing the power consumption. Special 0-91Hz stepless variable frequency speed regulation ensures the stable and reliable operation of the unit.

High efficient parts and unique design ensure the chiller high efficiency COP up to 3.0.

Easy Installation

Compact design, small footprint

'Y' shape design , small floor area, only 1.56m^2, 28% footprint can be reduced.



KEY FEATURE

Modular design, flexible combination

The unit adopts modular design, and max.16 modules can be combined in each group, which can meet the load demand of different buildings. The combination can be "full inverter units solution" or "inverter units and fixed speed units solution".

Full inverter units solution
【Inverter unit(main module)+N×inverter units(auxiliary modules)】

Inverter units and fixed speed units solution
【Inverter unit(main module)+N×fixed speed units(auxiliary modules)】

Modbus function

MODBUS interface is reserved for units, which can be connected to building automation systems for centralized control, easy to realize intelligent management and remote control.

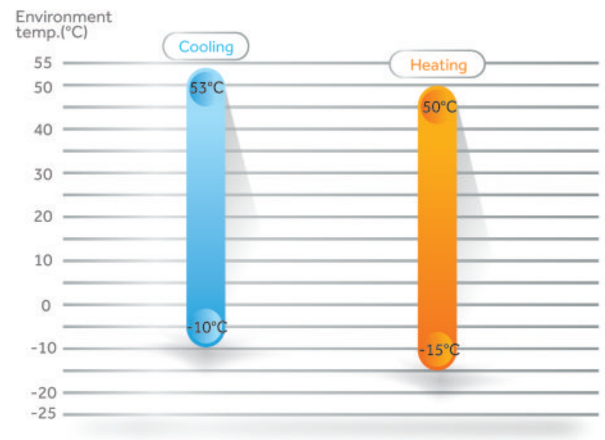
Standard flow switch

Standard flow switch in the product, installer no need to purchase flow switch.

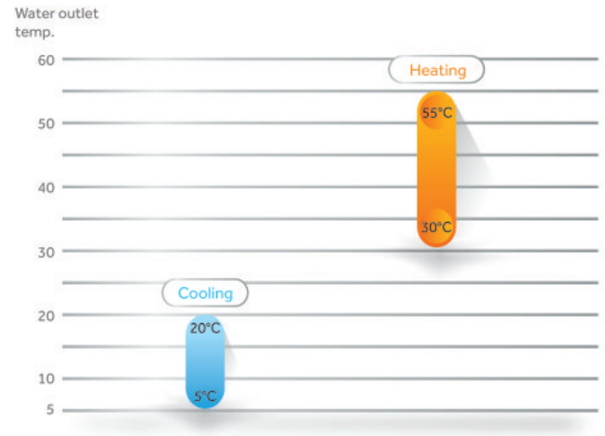
Wide Application

Wide working ambient temperature range

- -15°C in heating, 53°C in cooling.



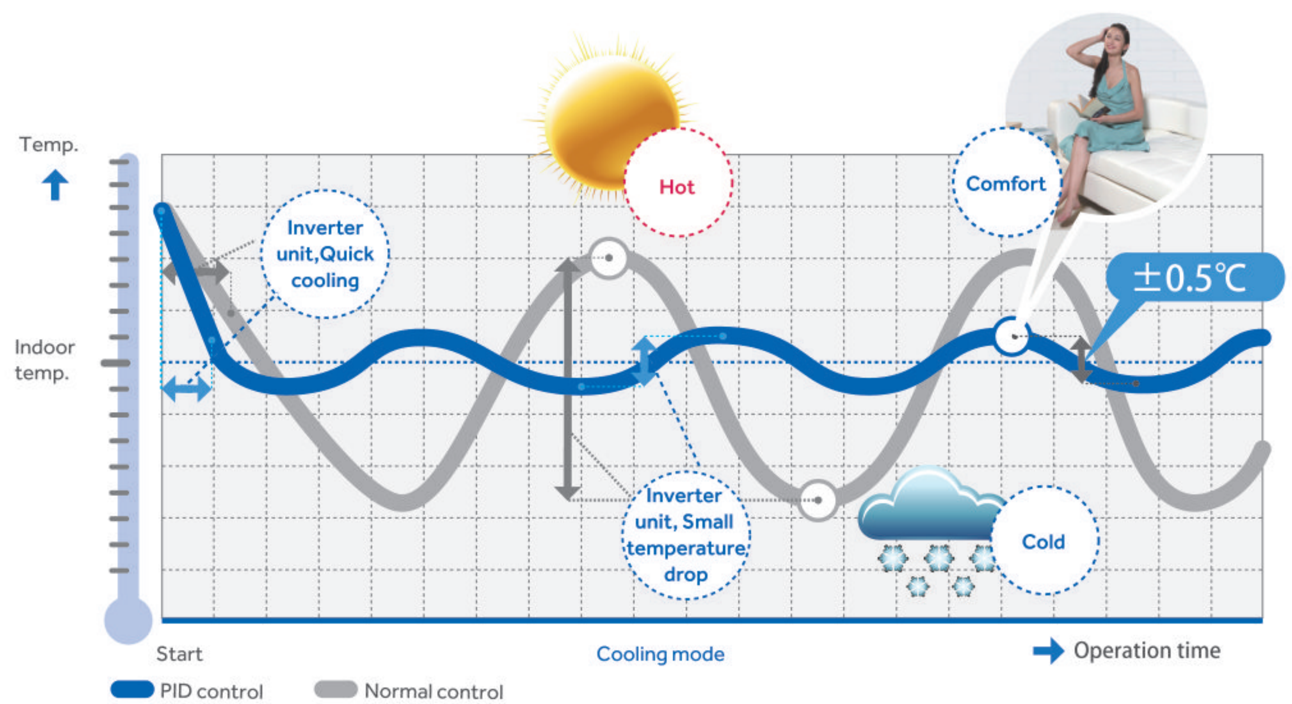
- Water outlet temp. up to 55°C



Comfort

Precise temperature control

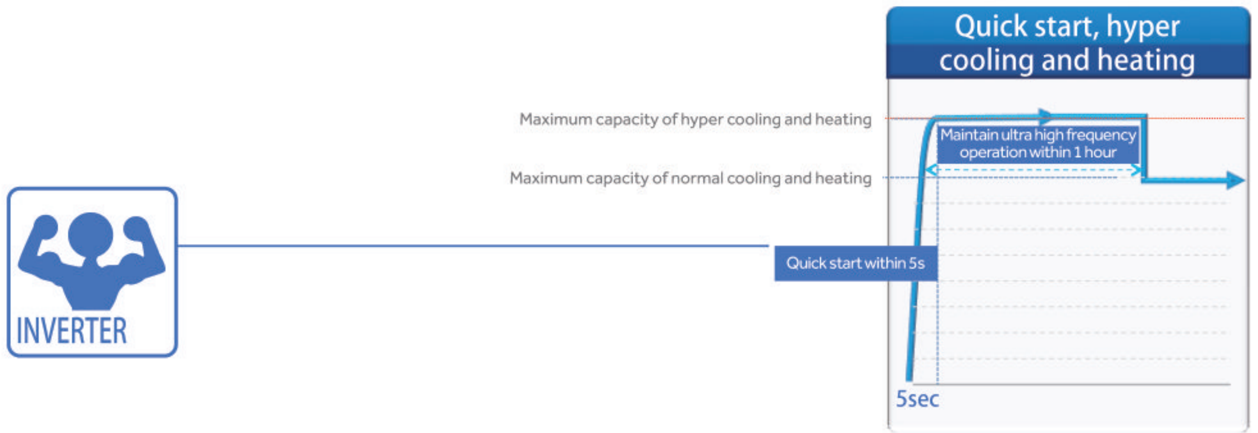
EXV adopts PID control, accurate control refrigerant distribution, outlet water temp. ±5% of the set temperature .



KEY FEATURE

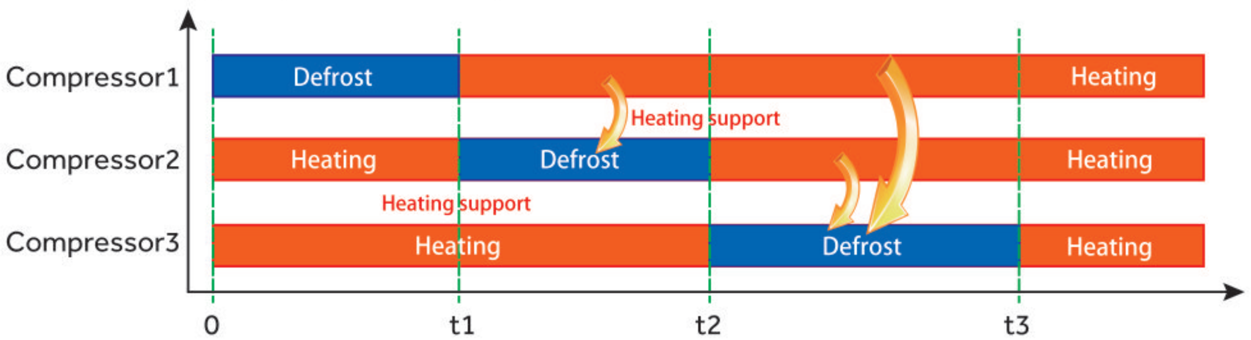
Quick start

With new inverter technology, quick start within 5s, maintain ultra high frequency operation within 1 hour to ensure the room temperature can reach the set temperature as soon as possible.



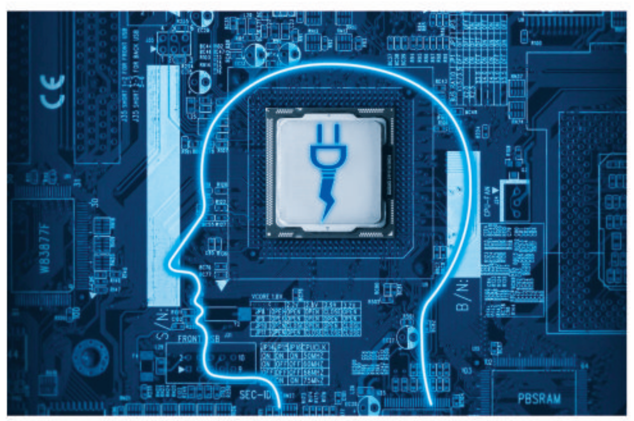
Special defrosting design

Fast defrosting speed, small water temp. fluctuation



Power cut memory function

The system will record the operating state before the power cut. When the power supply is restored, the system will automatically return to the state before the power cut without setting again.



High Reliability

Shell & tube heat exchanger

The new modular chiller adopts shell & tube heat exchanger(65/100/130kW) avoid dirty plugging, higher efficiency and reliability.

Filter drier

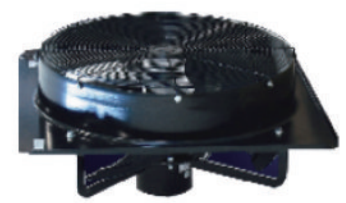
Filter drier,absorb moisture in the system, avoid the emergence of the "ice block"

Pressure sensor control

Through the pressure sensor real-time monitoring, realize the system quickly, accurately control, ensure the unit efficient and stable operation

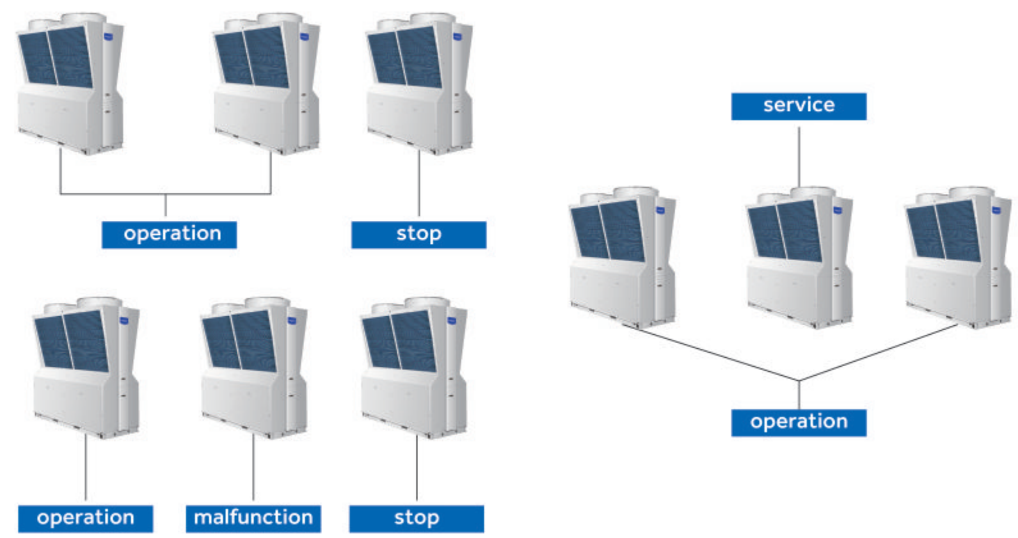
Three phase fan motor

Three phase fan motor,compared with one phase fan motor low starting current, high speed and more stable.



Backup operation function

The system has three modules, the actual operation of just two module, if one module malfunction another module will start automatically according to the water temperature.



MODULAR CHILLER

Model			CA0065EANR
Cooling	Cooling capacity	kW	60
	Power input	kW	20
	Running current	A	38
Heating	Heating capacity	kW	65
	Power input	kW	19.4
	Running current	A	36.8
COP_R		kW/kW	3.00
COP_H		kW/kW	3.35
Max.Power input		kW	31.6
Max. running current		A	60
Power supply			3N~/380V/50Hz
Refrigerant throttle type			Electronic expansion valve
Capacity control			Stepless
Safety & functional protections			High/low Pressure Protection,Water Lackage delay Protection, Freeze Protection,Overload & Overheat Protection, Phase Loss, Phase Sequence Protection
Compressor	Type		Rotary
	Quantity		2
	Input power	KW	9.5×2
Refrigerant	Type		R410A
	Charge	kg	6×2
Air side heat exchanger	Type		(Slit fin & efficient inner grooved copper tube)Inner grooved copper pipe & hydrophilic aluminum fin coil
	Fan power	KW	0.8×2
	Fan type		Axial flow fan
	Fan quantity		2
Water side heat exchanger	Type		Shell and tube heat exchanger
	Rated water flow	m³/h	10.32
	Inlet/outlet pipe		R2"
	Water dirt coefficient	m².°C/KW	0.018
	Standard pressure	Mpa	1.0
	Water resistance	kPa	45
Sound pressure level		dB(A)	65
External dimension	Unit length	mm	2060
	Unit width	mm	780
	Unit height	mm	2170
Package dimension	Unit length	mm	2200
	Unit width	mm	830
	Unit height	mm	2270
Weight	Unit weight	kg	700
	Gross weight	kg	715
	Operation weight	kg	750

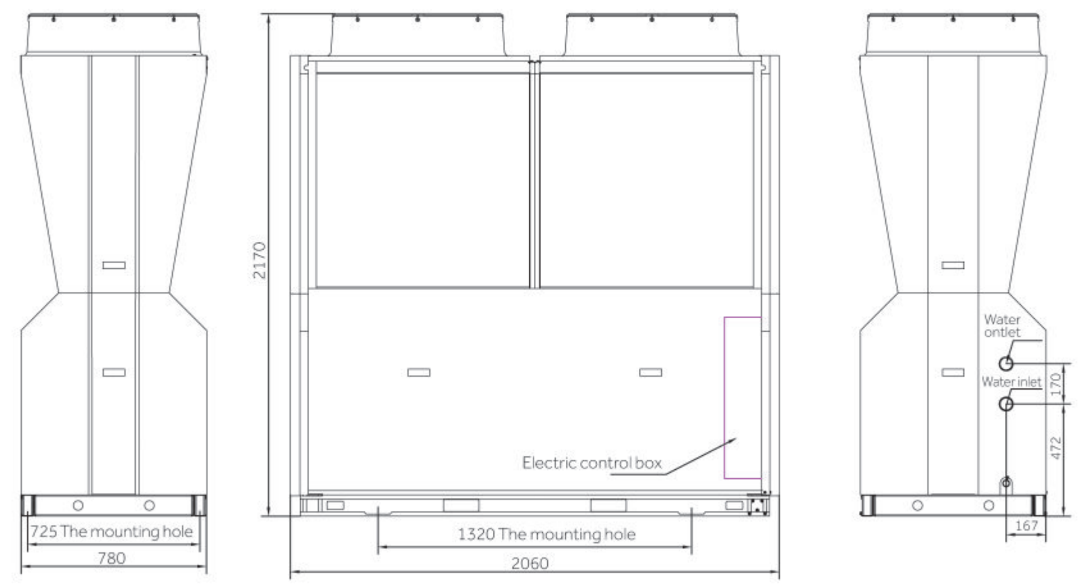
Note: 1.Specifications are based on the following conditions:
- Cooling: chilled water inlet/outlet: 12°C/7°C, and outdoor ambient temp. 35°CDB;
- Heating: warm water inlet/outlet: 40°C/45°C, and outdoor ambient temp. 7°CDB/6°CWB;
- Water side fouling factor: 0.018m²·°C/kW
- 1m away in open field(sound pressure)

2.Due to our policy of innovation， some specifications may be changed without notification.

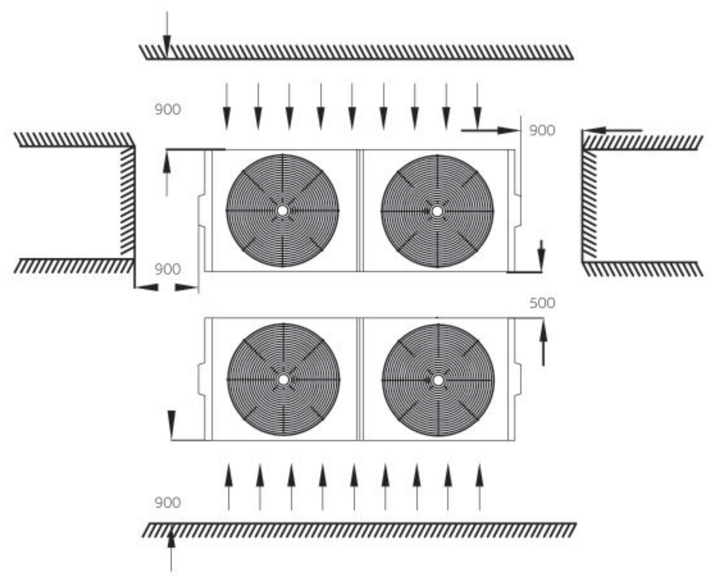
Unit Dimension Diagram

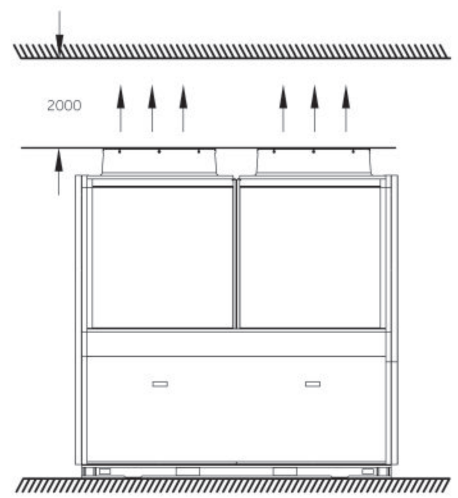
R410a Y-shape air-cooled modular chiller dimension

CA0065EANR Model



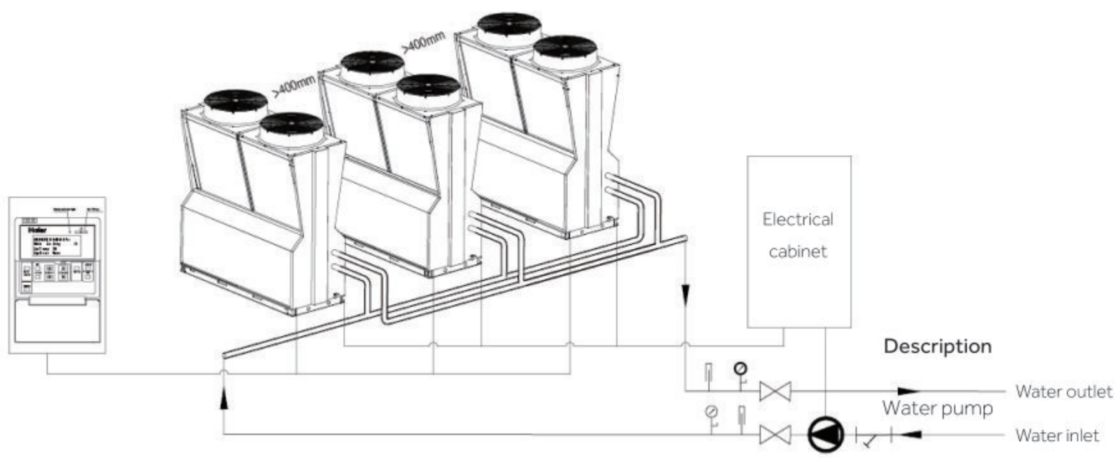
The Unit Installation & Maintenance Space





Chiller Water System And Control Wiring Diagram

Water pipe and control wiring connection diagram for multi-modular chiller



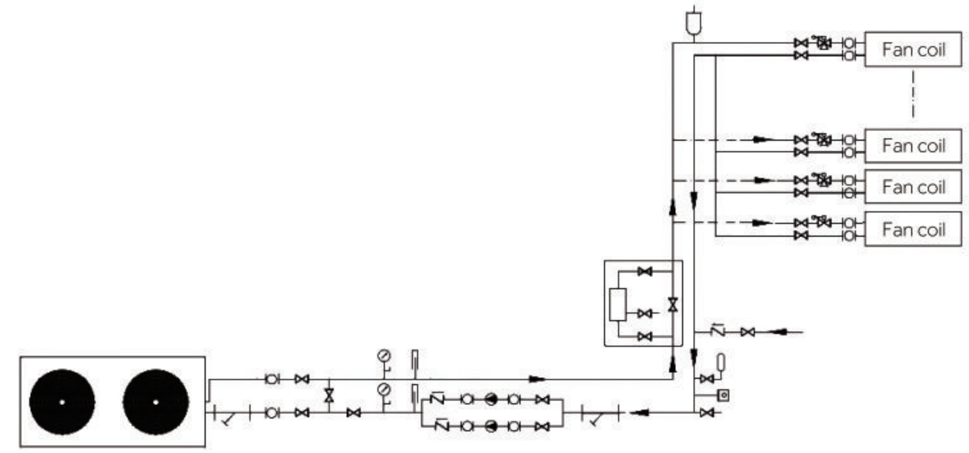
Control Wiring Diagram

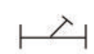
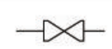
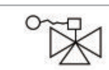
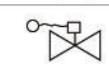
For example the model CA0065EANR

Screen interface　1 Master module　module　N modules

N≤16

Water System Installation Sketch



Model	Description	Model	Description
	Check valve		Water pump
	Automatic exhaust valve		flexible connection
	Water filter		Expansion tank
	Stop valve		Electronic water processor
	Thermometer		3-way valve
	Pressure gauge		2-way valve

Full Heat Recovery Modular Chiller

Air cooled/Heating pump
Cooling capacity range from 65kW up to 1040kW

Features

Unit Description

AQUA full heat recovery air cooled modular chiller uses air as the cold and heat source and water as the heat transfer medium. This unit can realize cooling in summer, heating in winter and annual supply of domestic hot water. The basic module is 65kW and max. 16 modules can be combined up to 1040kw. The product is applicable to hotel, hospital, restaurant, entertainment center, commercial building, office building, plant and other places.

KEY FEATURE

High Efficiency

High efficiency

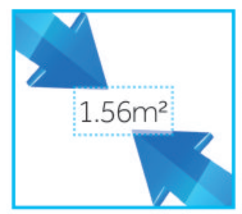
The COP is up to 3.1 and the comprehensive energy efficiency can be 8.28 under the heat recovery mode.

Multiple use

Five efficient operation modes: cooling, heating, hot water,winter smart mode(automatic switch for heating or hot water according to the actual demand), summer smart mode(automatic switch for cooling, heating or heat recovery according to the actual demand).

Full heat recovery

During cooling, the condensation heat can be recovered 100%, and the heat recovery is up to 84kW, which can provide the users with the constant temperature requirement of hot water.

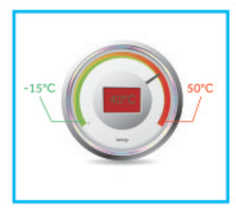


Small footprint

The unit adopts 'Y' shape design, only 1.56m², floor area.

Flexible design

Up to 16 units can be combined into one system in order to reach the required capacity demand.



Wide working ambient temperature range

Units can realize cooling at 50°C high ambient temperature and heating at -15°C low ambient temperature.

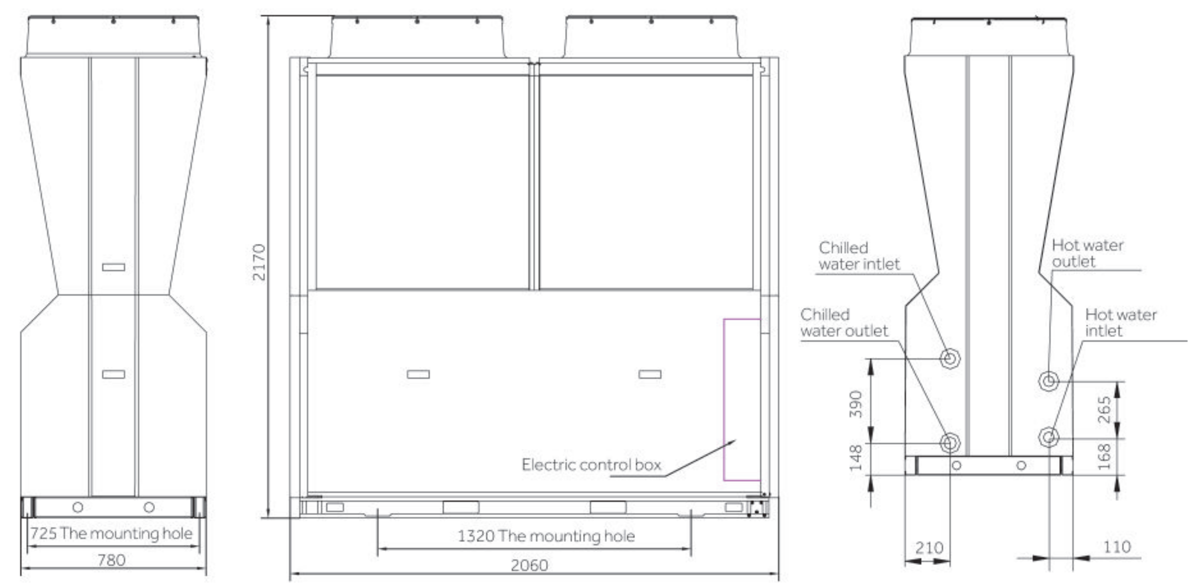
Model			CA0070EAND-HR
Cooling	Cooling capacity	kW	65
	Power input	kW	21
	Running current	A	36.3
Heating	Heating capacity	kW	70
	Power input	kW	20.7
	Running current	A	35.7
Hot water	Heating capacity	kW	85
	Power input	kW	21.2
	Running current	A	36.6
Heat recovery	Cooling capacity	kW	65
	Heating capacity	kW	84
	Power input	kW	19.5
	Running current	A	33.7
COP_R		kW/kW	3.10
COP_H		kW/kW	3.38
Max. power input		kW	28
Max. running current		A	48.3
Power supply			3N~/380V/50Hz
Refrigerant throttle type			Electronic expansion valve
Capacity control			50%,100%
Safety & functional protections			High/low Pressure Protection,Water Lackage delay Protection, Freeze Protection,Overload & Overheat Protection, Phase Loss, Phase Sequence Protection
Compressor	Type		Scroll compressor
	Quantity		2
	Input power	KW	18
Refrigerant	Type		R410A
	Charge	kg	7(A)+8(B)
Air side heat exchanger	Type		(Slit fin & efficient inner grooved copper tube)Inner grooved copper pipe & hydrophilic aluminum fin coil
	Fan power	KW	1.5
	Fan type		Axial flow fan
	Fan quantity		2
Air-conditioning water side heat exchanger	Type		Plate heat exchanger
	Rated water flow	m³/h	12
	Inlet/outlet pipe		R 2" (external screw thread)
	Water dirt coefficient	m².°C/KW	0.018
	Standard pressure	Mpa	1.0
	Water resistance	kPa	45
Hot water side heat exchanger	Type		Tube and shell heat exchanger
	Rated water flow	m³/h	14.6
	Inlet/outlet pipe		R 2" (internal screw thread)
	Water dirt coefficient	m².°C/KW	0.018
	Standard pressure	Mpa	1.0
	Water resistance	kPa	68
Sound pressure level		dB(A)	65
External dimension	Unit length	mm	2060
	Unit width	mm	780
	Unit height	mm	2170
Package dimension	Unit length	mm	2200
	Unit width	mm	830
	Unit height	mm	2310
Weight	Unit weight	kg	700
	Gross weight	kg	715
	Operation weight	kg	750

Note: 1.Specifications are based on the following conditions;
- Cooling: chilled water inlet/outlet: 12°C/7°C, and outdoor ambient temp. 35°CDB;
- Heating: warm water inlet/outlet: 40°C/45°C, and outdoor ambient temp. 7°CDB/6°CWB;
- Hot water:hot water inlet/outlet:40°C/45°C,and outdoor ambient temp. 20°CDB/15°CWB;
- Heat recovery:chilled water inlet/outlet: 12°C/7°C,and hot water inlet/outlet:40°C/45°C;
- Water side fouling factor: 0.018m2•°C/kW
- 1m away in open field(sound pressure)

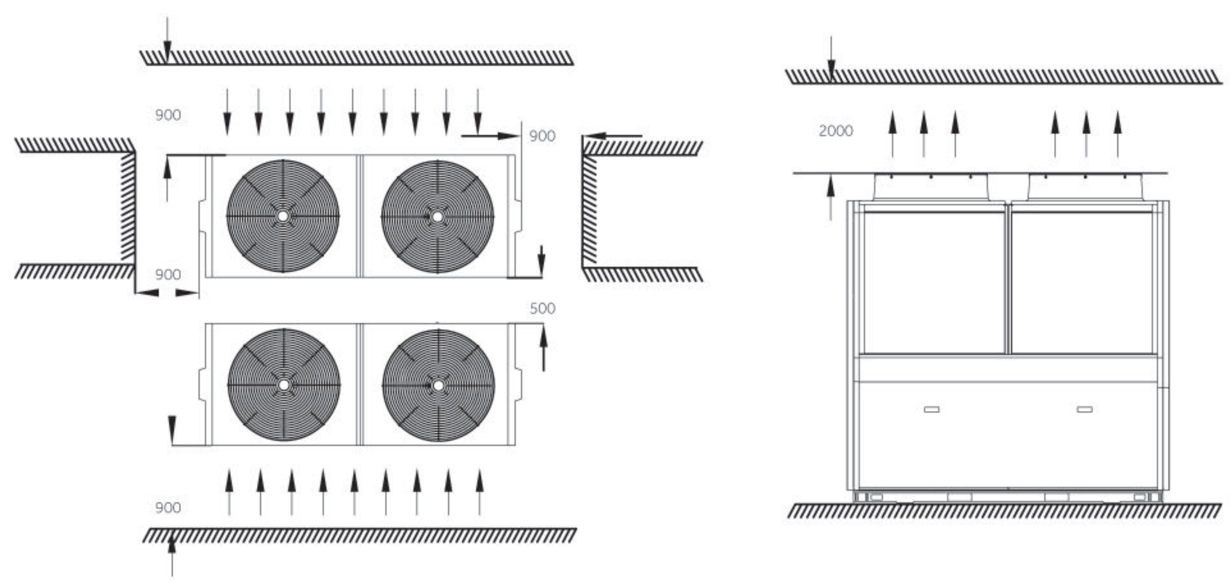
2.Due to our policy of innovation, some specifications may be changed without notification.

Unit Dimension Diagram

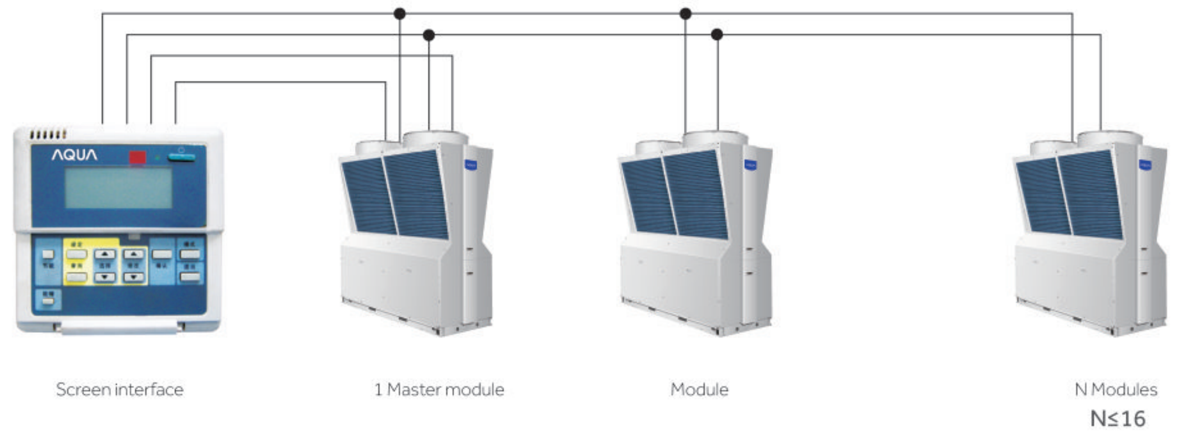
CA0070EAND-HR Model



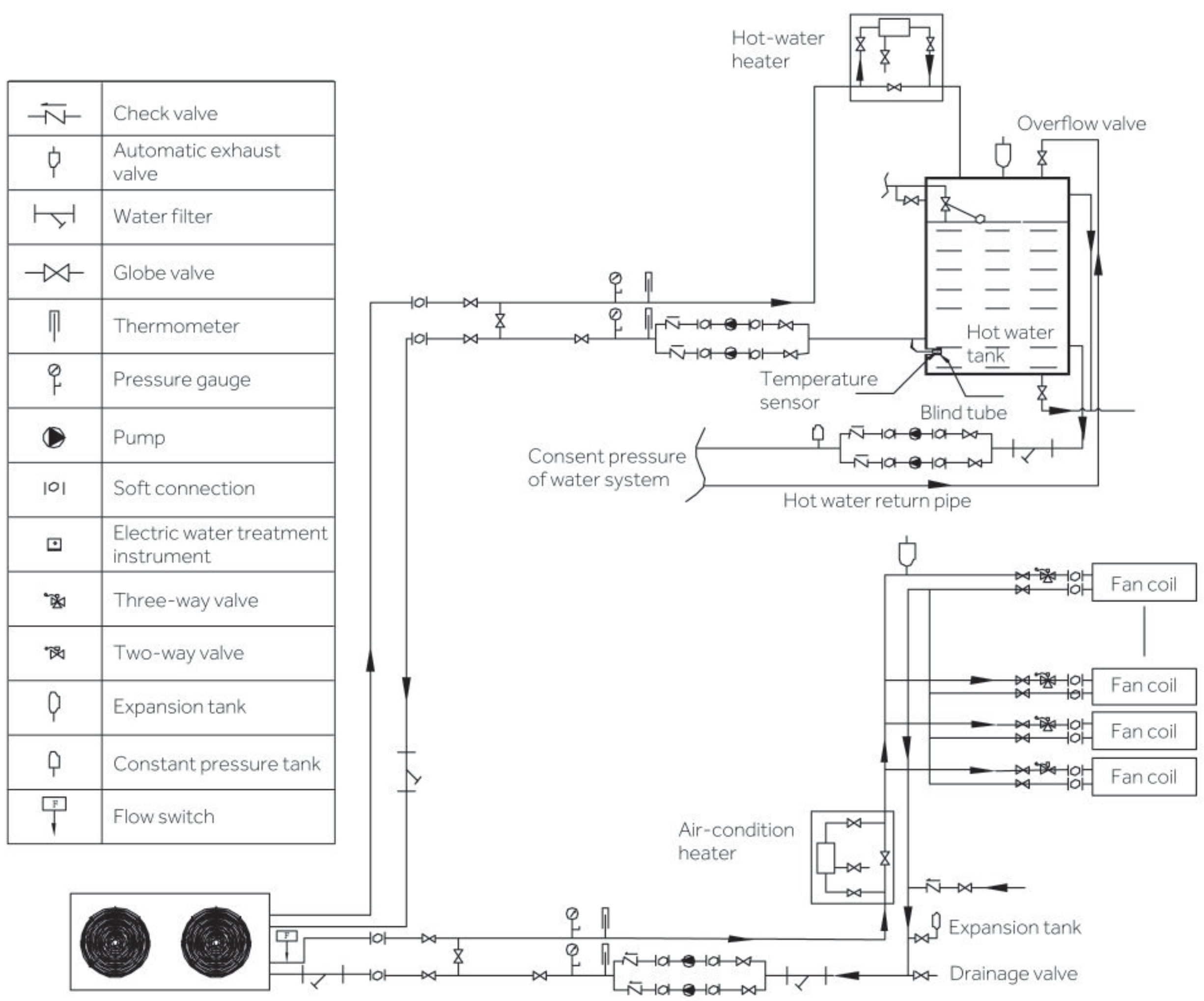
The Unit Installation & Maintenance Space



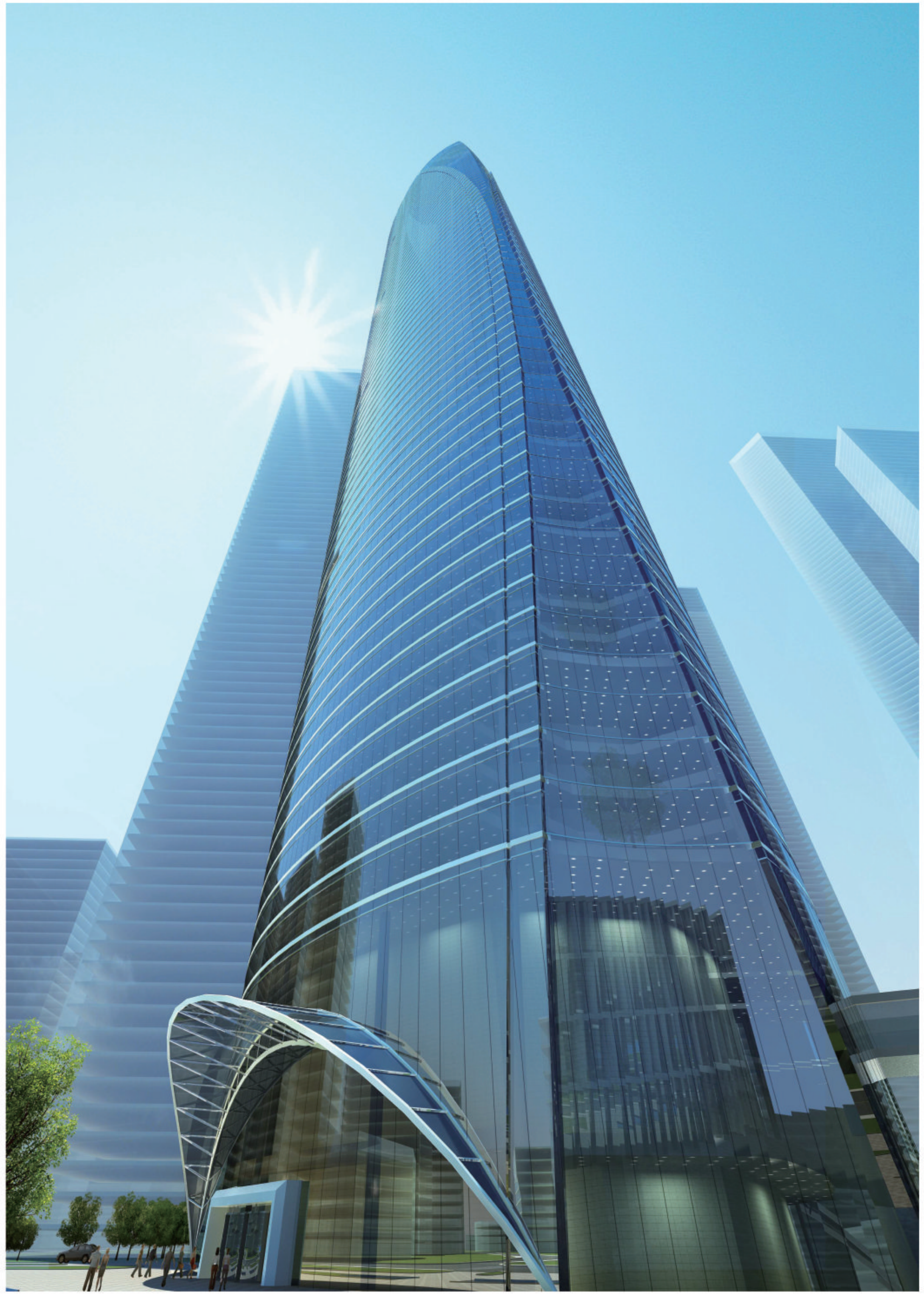
Control Wiring Diagram



Water System Installation Sketch



Note: The thermal conductive material must be installed in the blind pipe of the temperature sensor, otherwise the probe can not accurately detect the temperature of the water tank. The unit has a temperature probe with a length of 6 meters.



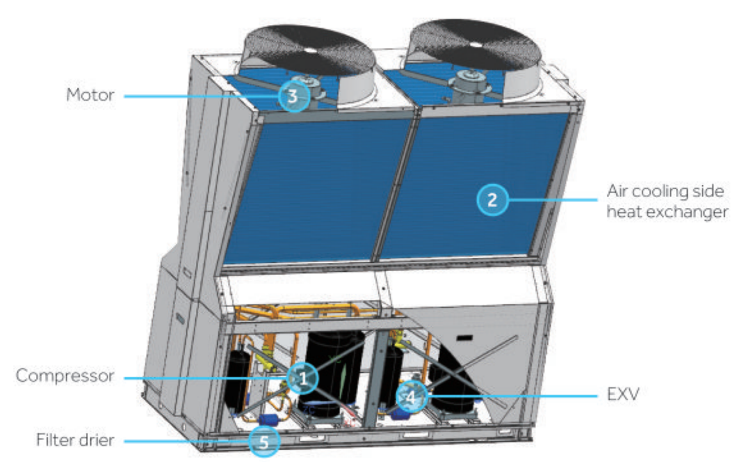
MODULAR CHILLER

Modular Chiller

Air cooled
Cooling only: cooling capacity from 140kW up to 2240kW
Heat pump: cooling capacity from 30kW up to 2080kW

Features

High Efficiency



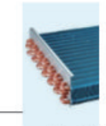
KEY FEATURE

High Efficiency

1 Compressor

Best scroll compressor, low sound power level, high COP.

2 Air cooling side heat exchanger



AQUA modular chiller enlarge the heat exchanging area with 5%, bigger than normal modular chiller, increase COP.

3 Motor

Low sound power level axial fan, together with the high efficient motor, making higher efficiency and lower sound power level.

4 EXV design

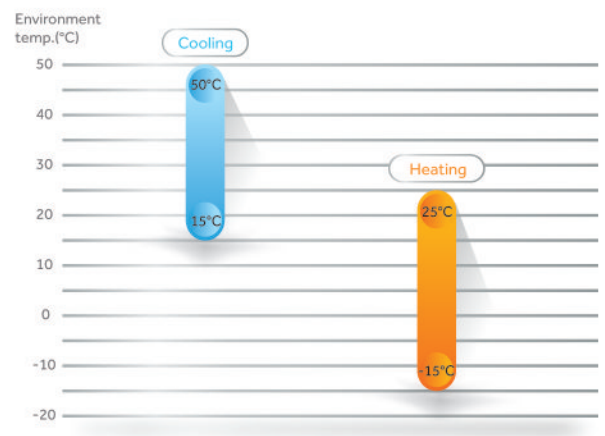
Adopt high efficient EXV to adjust the refrigerant flow by adjusting the system superheat. With the high efficiency evaporator, the COP at full load and partial load reaches the best state.

High efficient parts and unique design ensure the chiller high efficiency COP up to 3.39(R410a Series).

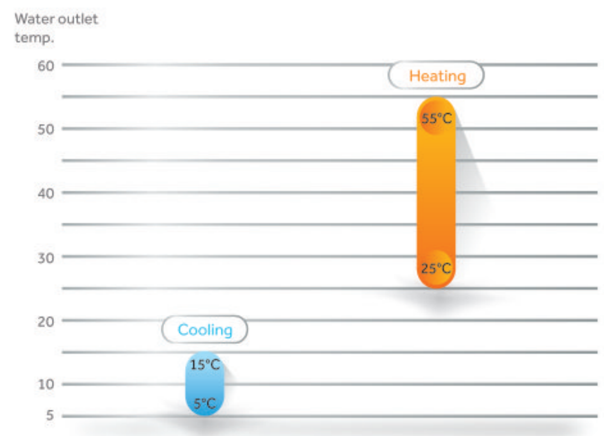
Wide Application

Wide temperature operation range

- -15°C in heating, 50°C in cooling.



- Water outlet temp up to 55°C



MODULAR CHILLER

Modular Chiller

Heat pump series

Model			CA0035EAND	CA0070EAND	CA0100EAND	CA0130EAND
Cooling	Cooling capacity	kW	30	65	98	130
	Power input	kW	9.4	19.2	28.9	38.4
	Running current	A	15.8	34.6	53.2	75.4
Heating	Heating capacity	kW	33	70	103	135
	Power input	kW	9.6	19.1	28.7	38.2
	Running current	A	16.2	34.4	52.8	75
COP_R		kW/kW	3.19	3.39	3.39	3.39
COP_H		kW/kW	3.44	3.66	3.59	3.53
Max.Power input		kW	16.3	28	45.6	56
Max. running current		A	27.5	55	82.5	110
Power supply			3N/380V/50Hz			
Refrigerant throttle type			Electronic expansion valve			
Capacity control			100%	50%, 100%	33%, 67%, 100%	25%, 50%, 75%, 100%
Safety & functional protections			High/low Pressure Protection, Water Lackage delay Protection, Freeze Protection, Overload & Overheat Protection, Phase Loss, Phase Sequence Protection			
Compressor	Type		scroll compressor			
	Quantity		1	2	3	4
	Input power	KW	9	18	27	36
Refrigerant	Type		R410A			
	Charge	kg	5.5	6*2	5.8*3	5.8*4
Air side heat exchanger	Type		(Slit fin & efficient inner grooved copper tube)Inner grooved copper pipe & hydrophilic aluminum fin coil			
	Fan power	KW	0.7	1.5	2.3	3
	Fan type		Axial flow fan			
	Fan quantity		1	2	3	4
Water side heat exchanger	Type		Plate heat exchanger	Shell & Tube heat exchanger		
	Rated water flow	m³/h	5.6	12	17.7	24
	Inlet/outlet pipe		DN65	R 2" (external screw thread)	R 2" (external screw thread)	R 2 1/2" (external screw thread)
	Water dirt coefficient	m².°C/KW	0.018			
	Standard pressure	Mpa	1.0	1.0	1.0	1.0
	Water resistance	kPa	40	45	50	60
Sound pressure level		dB(A)	60	65	67	68
External dimension	Unit length	mm	918	2060	2060	2060
	Unit width	mm	1038	780	1603	1603
	Unit height	mm	1810	2170	2170	2170
Package dimension	Unit length	mm	1075	2200	2200	2200
	Unit width	mm	940	830	1650	1650
	Unit height	mm	1950	2280	2280	2280
Weight	Unit weight	kg	270	630	960	1090
	Gross weight	kg	290	645	990	1125
	Operation weight	kg	280	670	1010	1245

Note: Specifications are based on the following conditions:
- Cooling: chilled water inlet/outlet: 12°C/7°C, and outdoor ambient temp. 35°CDB;
- Heating: warm water inlet/outlet: 40°C/45°C, and outdoor ambient temp. 7°CDB/6°CWB;
- Water side fouling factor: 0.018m²·°C/kW
- 1m away in open field(sound pressure)

Cooling only series

Model			CA0140QANE
Cooling	Cooling capacity	kW	140
	Power input	kW	42
	Running current	A	82.5
COP_R		kW/kW	3.33
Max.Power input		kW	56
Max. running current		A	110
Power supply			3N~/380V/50Hz
Refrigerant throttle type			Electronic expansion valve
Capacity control			25%,50%,75%,100%
Safety & functional protections			High/low Pressure Protection,Water Lackage delay Protection, Freeze Protection,Overload & Overheat Protection, Phase Loss, Phase Sequence Protection
Compressor	Type		Scroll compressor
	Quantity		4
	Input power	KW	40
Refrigerant	Type		R410A
	Charge	kg	8*4
Air side heat exchanger	Type		(Slit fin & efficient inner grooved copper tube)Inner grooved copper pipe & hydrophilic aluminum fin coil
	Fan power	KW	3
	Fan type		Axial flow fan
	Fan quantity		4
Water side heat exchanger	Type		Shell & Tube heat exchanger
	Rated water flow	m³/h	24
	Inlet/outlet pipe		R 3" (external screw thread)
	Water dirt coefficient	m².°C/KW	0.018
	Standard pressure	Mpa	1.0
	Water resistance	kPa	55
Sound pressure level		dB(A)	68
External dimension	Unit length	mm	2060
	Unit width	mm	1603
	Unit height	mm	2170
Package dimension	Unit length	mm	2200
	Unit width	mm	1650
	Unit height	mm	2280
Weight	Unit weight	kg	1065
	Gross weight	kg	1100
	Operation weight	kg	1160

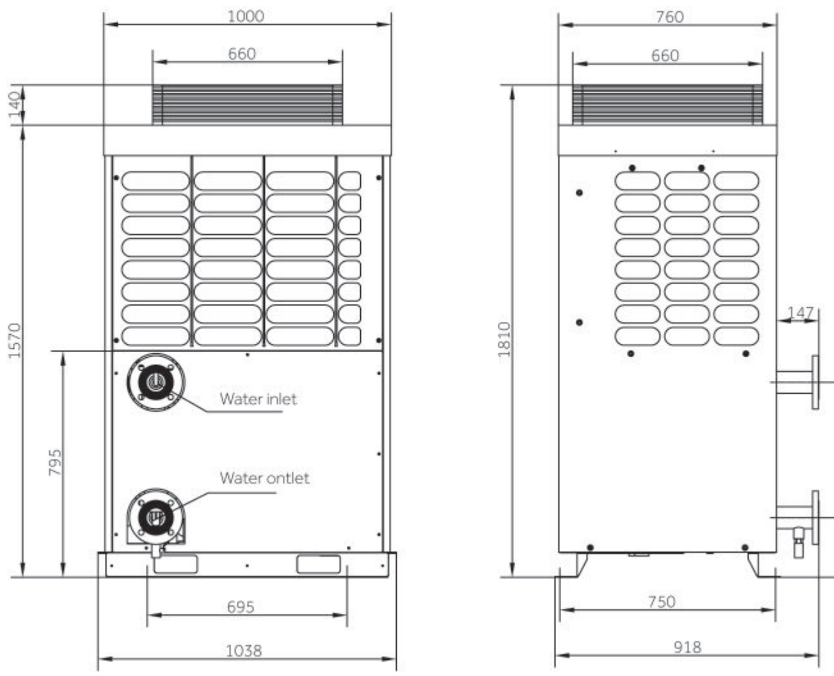
Note: 1.Specifications are based on the following conditions:
- Cooling: chilled water inlet/outlet: 12°C/7°C, and outdoor ambient temp. 35°CDB;
- Heating: warm water inlet/outlet: 40°C/45°C, and outdoor ambient temp. 7°CDB/6°CWB;
- Water side fouling factor: 0.018m²·°C/kW
- 1m away in open field(sound pressure)

2.Due to our policy of innovation, some specifications may be changed without notification.

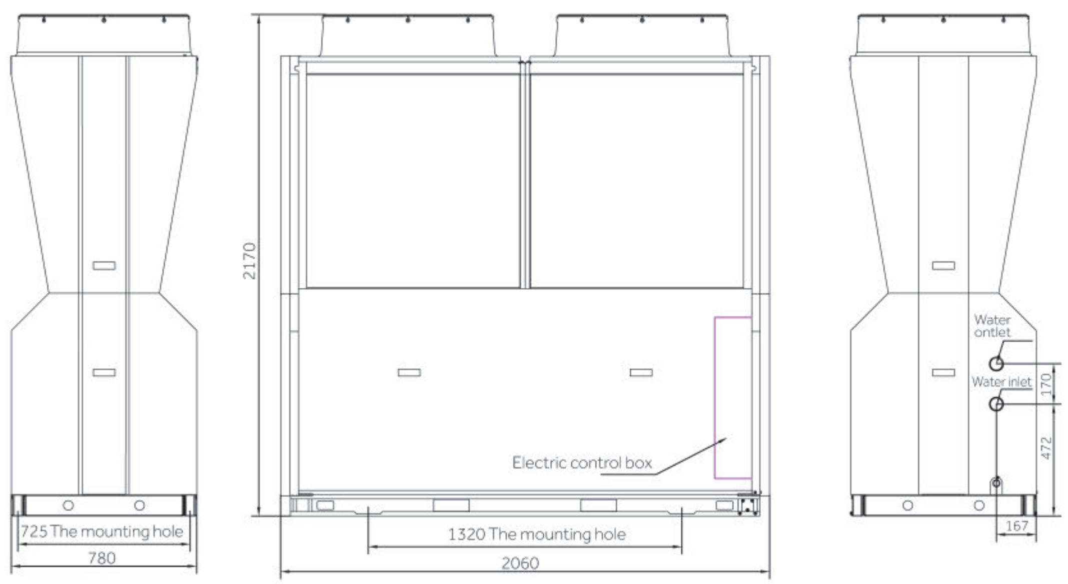
Unit Dimension Diagram

R410a Y-shape air-cooled modular chiller dimension

CA0035EAND Model



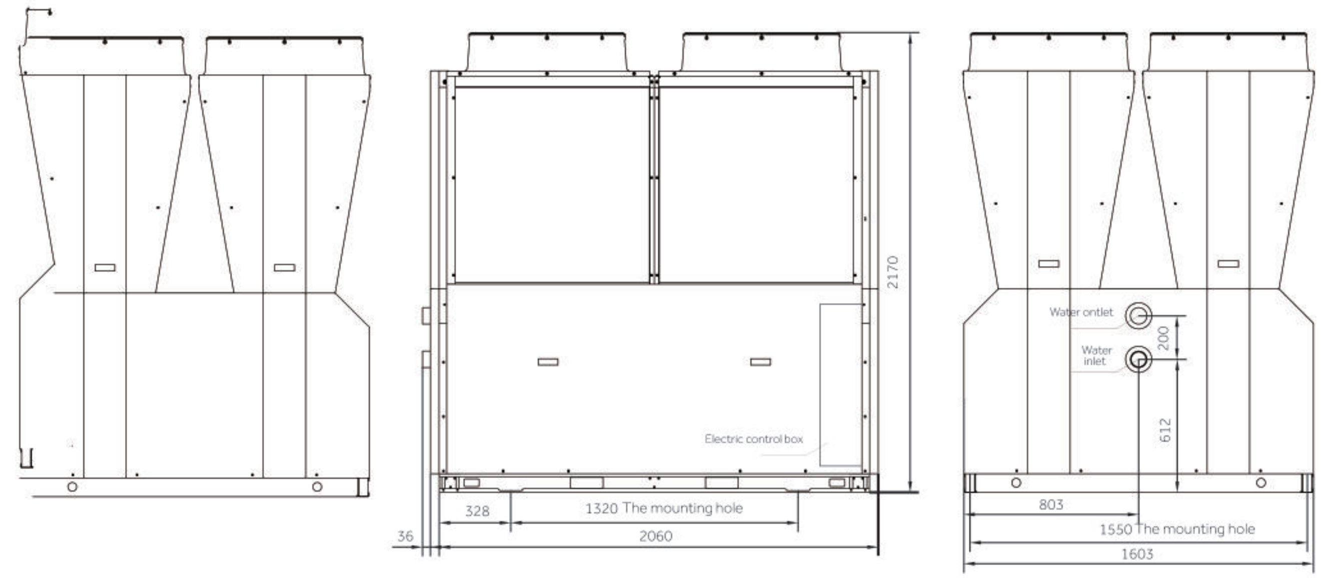
CA0070EAND Model



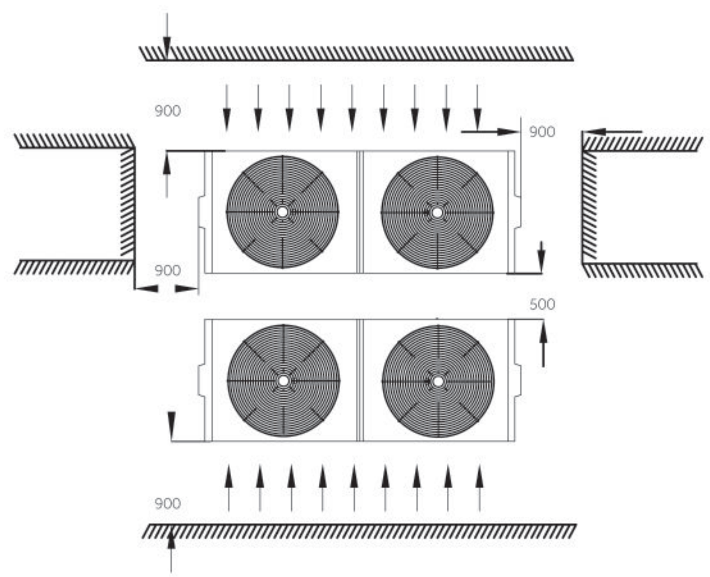
Unit Dimension Diagram

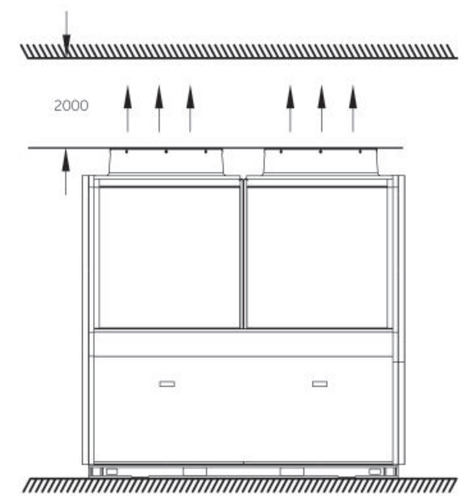
R410a Y-shape air-cooled modular chiller dimension

CA0100EAND/CA0130EAND/CA0140QANE Model



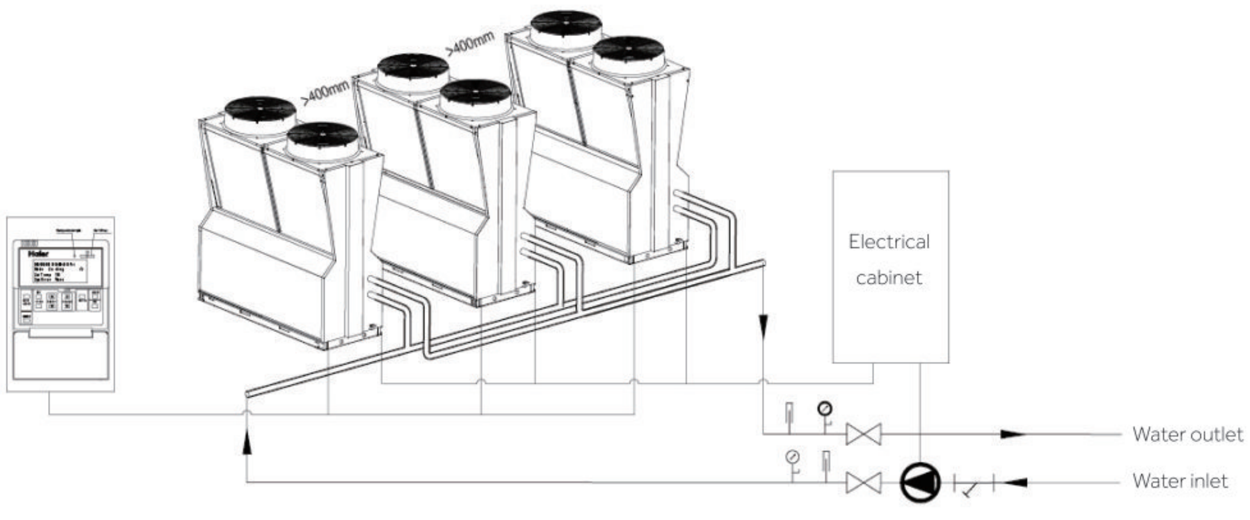
The Unit Installation & Maintenance Space





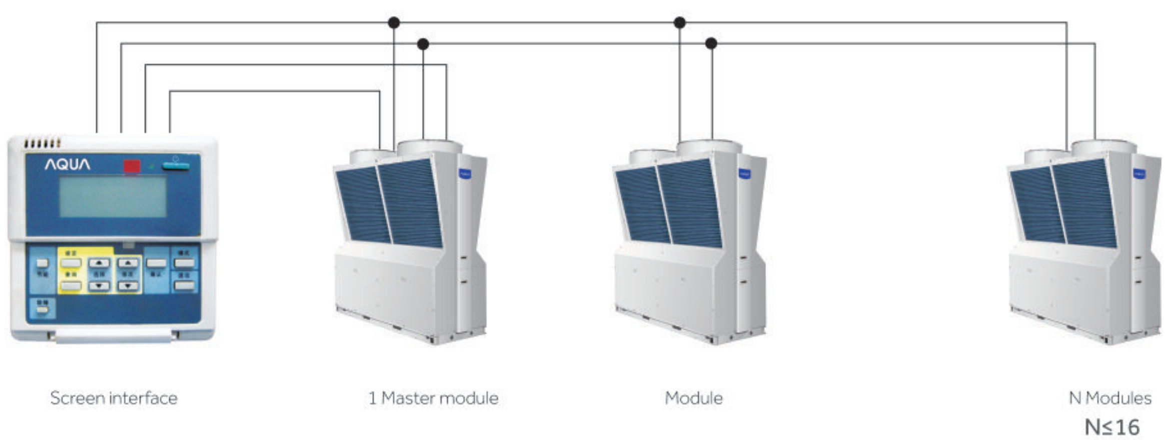
Chiller Water System And Control Wiring Diagram

Water pipe and control wiring connection diagram for multi-modular chiller

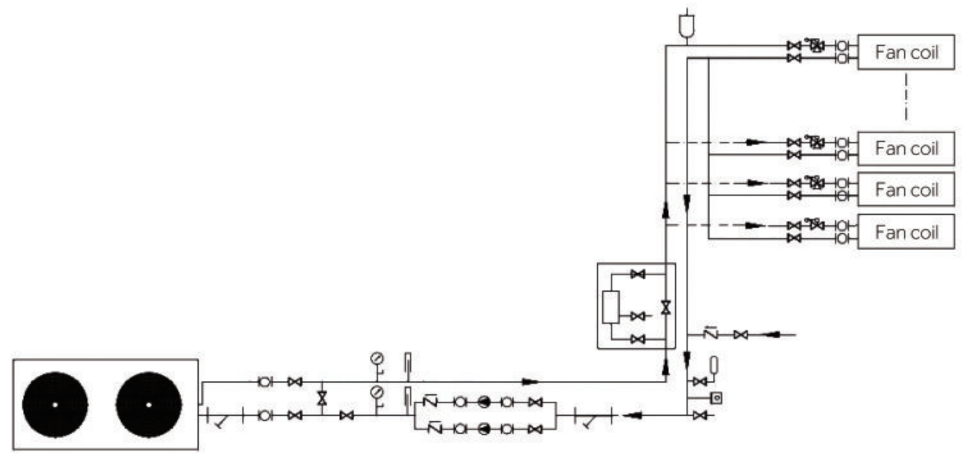


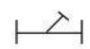
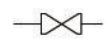
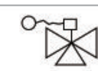
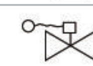
Control Wiring Diagram

For example the model CA0070EAND

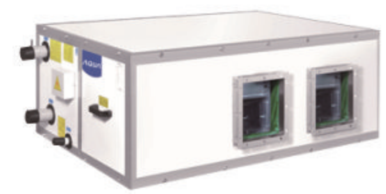


Water System Installation Sketch



Model	Description	Model	Description
	Check valve		Water pump
	Automatic exhaust valve		flexible connection
	Water filter		Expansion tank
	Stop valve		Electronic water processor
	Thermometer		3-way valve
	Pressure gauge		2-way valve

FAN COIL UNITS
AIR HANDLING UNITS



Ceiling Concealed Fan Coil

2 pipe system

3 Rows coil

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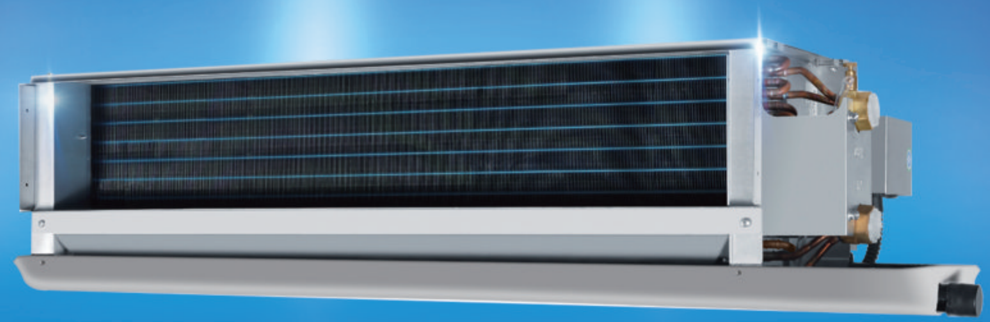
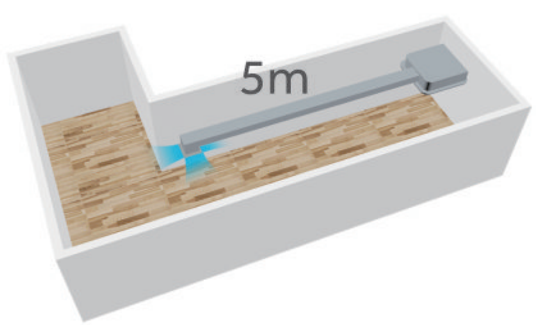


Features

Flexible Design

12/30/50 Pa ESP

Duct fan coil takes new steel fan design, enlarge the fan length and diameter, use new powerful motor, the ESP have 12/30/50 Pa choice, give the flexibility in design work .

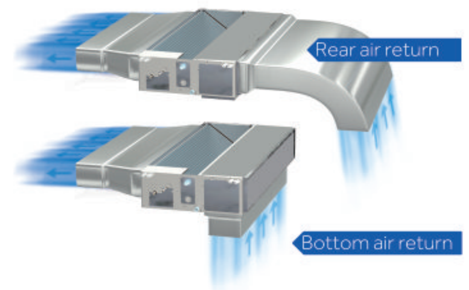


KEY FEATURE

Flexible Design

Return air choice

Friendly design of rear air return or bottom air return is available.



High Reliability

Steel fan and fan scroll

The fan and fan scroll takes steel material design, in case of fire, it will avoid the fire.

Three way valve choice

According to customer need, Haier can supply the three way valve to match with cassette and duct fan coil, give the flexibility in design work .

Tailor made product

According to customer need, Haier can supply 50Pa as standard product,also 12Pa, 30pa as optional, also Haier can supply return air box, return air box & filter, enlarged drain pan as option;

Ceiling Concealed Fan Coil

MODEL		No air return box&filter	FCE-034CCN2B	FCE-051CCN2B	FCE-068CCN2B	FCE-085CCN2B	FCE-102CCN2B
		Rear air return box&filter	FCE-034CCB2B	FCE-051CCB2B	FCE-068CCB2B	FCE-085CCB2B	FCE-102CCB2B
		Bottom air return box&filter	FCE-034CCD2B	FCE-051CCD2B	FCE-068CCD2B	FCE-085CCD2B	FCE-102CCD2B
Air volume	m³/h	H	340	510	680	850	1020
		M	258	388	517	646	775
		L	177	265	354	442	530
ESP	pa		50				
Cooling capacity	W	H	2410	3550	4550	5510	6200
		M	2169	3195	4095	4959	5580
		L	1783	2627	3367	4077	4588
Heating capacity	W	H	3700	5600	7450	8800	10200
		M	3219	4872	6482	7656	8874
		L	2701	4088	5439	6424	7446
Power input	W	H	49	66	84	100	118
Power supply	Ph/V/Hz		1/220/50				
Noise level	dB(A)	H	42	44	46	47	49
Water flow	l/min		6.9	10.2	13.0	15.8	17.8
Water pressure drop	kPa		30	30	30	30	40
Water inlet/outlet connection pipe			Rc3/4"				
Condensate water connection pipe			R3/4"				
Net weight (no air return box)	kg		11.6	14.1	15.8	17.5	18.4
Gross weight (no air return box)	kg		13.9	16.6	18.5	20.4	21.6
Net weight (with air return box)	kg		14.2	17.2	19.2	21.2	22.5
Gross weight (with air return box)	kg		16.4	19.4	21.6	23.8	25.5
Net dimension (L/W/H) (no air return box)	mm		693/470/225	823/470/225	928/470/225	1013/470/225	1143/470/225
Shipping dimension (L/W/H) (no air return box)	mm		740/542/248	870/542/248	975/542/248	1060/542/248	1190/542/248
Net dimension (L/W/H) (with rear air return box)	mm		693/511/225	823/511/225	928/511/225	1013/511/225	1143/511/225
Shipping dimension (L/W/H) (with rear air return box)	mm		740/542/248	870/542/248	975/542/248	1060/542/248	1190/542/248
Net dimension (L/W/H) (with bottom air return box)	mm		693/492/246	823/492/246	928/492/246	1013/492/246	1143/492/246
Shipping dimension (L/W/H) (with bottom air return box)	mm		740/522/263	870/522/263	975/522/263	1060/522/263	1190/522/263
Controller (optional)	Wired		HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK
Three way valve (optional)			3VFCE	3VFCE	3VFCE	3VFCE	3VFCE

MODEL		No air return box&filter	FCE-136CCN2B	FCE-170CCN2B	FCE-204CCN2B	FCE-238CCN2B
		Rear air return box&filter	FCE-136CCB2B	FCE-170CCB2B	FCE-204CCB2B	FCE-238CCB2B
		Bottom air return box&filter	FCE-136CCD2B	FCE-170CCD2B	FCE-204CCD2B	FCE-238CCD2B
Air volume	m³/h	H	1360	1700	2040	2380
		M	1034	1292	1550	1809
		L	707	884	1061	1238
ESP	pa		50			
Cooling capacity	W	H	8600	10800	12000	13200
		M	7740	9720	10800	11880
		L	6364	7992	8880	9768
Heating capacity	W	H	13800	17500	21000	22500
		M	12006	15225	18270	19575
		L	10074	12775	15330	16425
Power input	W	H	174	210	250	300
Power supply	Ph/V/Hz		1/220/50			
Noise level	dB(A)	H	50	52	54	55
Water flow	l/min		24.7	31.0	34.4	37.8
Water pressure drop	kPa		40	40	40	50
Water inlet/outlet connection pipe			Rc3/4"			
Condensate water connection pipe			R3/4"			
Net weight (no air return box)	kg		26.2	29.1	32.8	35.1
Gross weight (no air return box)	kg		30.1	33.4	38.1	40.4
Net weight (with air return box)	kg		31.4	34.8	39.2	42.2
Gross weight (with air return box)	kg		34.7	38.5	44.0	46.9
Net dimension (L/W/H) (no air return box)	mm		1443/470/225	1593/470/225	1813/470/225	2013/470/225
Shipping dimension (L/W/H) (no air return box)	mm		1490/542/248	1640/542/248	1860/542/248	2060/542/248
Net dimension (L/W/H) (with rear air return box)	mm		1443/511/225	1593/511/225	1813/511/225	2013/511/225
Shipping dimension (L/W/H) (with rear air return box)	mm		1490/542/248	1640/542/248	1860/542/248	2060/542/248
Net dimension (L/W/H) (with bottom air return box)	mm		1443/492/246	1593/492/246	1813/492/246	2013/492/246
Shipping dimension (L/W/H) (with bottom air return box)	mm		1490/522/263	1640/522/263	1860/522/263	2060/522/263
Controller (optional)	Wired		HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK
Three way valve (optional)			3VFCE	3VFCE	3VFCE	3VFCE

Options:
1.Three way valve; 2. The enlarged drain pan ;

Note:
1. Specifications are based on the following conditions:
Cooling: Dry bulb temperature 27°C, wet bulb temperature 19.5°C, the water inlet temperature 7°C, 5°C temperature difference between water inlet and water outlet.
Heating: Dry bulb temperature 21°C, the water inlet temperature 60°C, the water flow is the same to that at the cooling test condition.
2. The sound pressure level is measured in a semi-anechoic chamber by units without air return box &filter. The measured sound pressure level may be different from the data in the table due to the using condition or other reasons. The sound pressure level of the unit with the air return box &filter is higher than that of the unit without the air return box &filter.
3. The ESP, air volume, cooling and heating capacity of the above table are measured by the units without the air return box &filter. For the units with the air return box &filter, the air volume, cooling and heating capacity shall be multiplied by the correction factor of 0.9.
4. The unit has left water inlet or right water inlet type, which can be temporarily adjusted on site. It is not recommended to adjust, because the cooling and heating capacity hall be multiplied by the correction factor of 0.92 after the adjustment.
5. Due to the our policy of innovation, some specifications may be changed without notification.

MODEL		No air return box&filter	FCE-034BCN2B	FCE-051BCN2B	FCE-068BCN2B	FCE-085BCN2B	FCE-102BCN2B
		Rear air return box&filter	FCE-034BCB2B	FCE-051BCB2B	FCE-068BCB2B	FCE-085BCB2B	FCE-102BCB2B
		Bottom air return box&filter	FCE-034BCD2B	FCE-051BCD2B	FCE-068BCD2B	FCE-085BCD2B	FCE-102BCD2B
Air volume	m³/h	H	340	510	680	850	1020
		M	258	388	517	646	775
		L	177	265	354	442	530
ESP	pa		30				
Cooling capacity	W	H	2410	3550	4550	5510	6200
		M	2169	3195	4095	4959	5580
		L	1783	2627	3367	4077	4588
Heating capacity	W	H	3700	5600	7450	8800	10200
		M	3219	4872	6482	7656	8874
		L	2701	4088	5439	6424	7446
Power input	W	H	44	59	72	87	108
Power supply	Ph/V/Hz		1/220/50				
Noise level	dB(A)	H	39	42	43	45	47
Water flow	l/min		6.9	10.2	13.0	15.8	17.8
Water pressure drop	kPa		30	30	30	30	40
Water inlet/outlet connection pipe			Rc3/4"				
Condensate water connection pipe			R3/4"				
Net weight (no air return box)	kg		11.6	14.1	15.8	17.5	18.4
Gross weight (no air return box)	kg		13.9	16.6	18.5	20.4	21.6
Net weight (with air return box)	kg		14.2	17.2	19.2	21.2	22.5
Gross weight (with air return box)	kg		16.4	19.4	21.6	23.8	25.5
Net dimension (L/W/H) (no air return box)	mm		693/470/225	823/470/225	928/470/225	1013/470/225	1143/470/225
Shipping dimension (L/W/H) (no air return box)	mm		740/542/248	870/542/248	975/542/248	1060/542/248	1190/542/248
Net dimension (L/W/H) (with rear air return box)	mm		693/511/225	823/511/225	928/511/225	1013/511/225	1143/511/225
Shipping dimension (L/W/H) (with rear air return box)	mm		740/542/248	870/542/248	975/542/248	1060/542/248	1190/542/248
Net dimension (L/W/H) (with bottom air return box)	mm		693/492/246	823/492/246	928/492/246	1013/492/246	1143/492/246
Shipping dimension (L/W/H) (with bottom air return box)	mm		740/522/263	870/522/263	975/522/263	1060/522/263	1190/522/263
Controller (optional)	Wired		HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK
Three way valve (optional)			3VFCE	3VFCE	3VFCE	3VFCE	3VFCE

MODEL		No air return box&filter	FCE-136BCN2B	FCE-170BCN2B	FCE-204BCN2B	FCE-238BCN2B
		Rear air return box&filter	FCE-136BCB2B	FCE-170BCB2B	FCE-204BCB2B	FCE-238BCB2B
		Bottom air return box&filter	FCE-136BCD2B	FCE-170BCD2B	FCE-204BCD2B	FCE-238BCD2B
Air volume	m³/h	H	1360	1700	2040	2380
		M	1034	1292	1550	1809
		L	707	884	1061	1238
ESP	pa		30			
Cooling capacity	W	H	8600	10800	12000	13200
		M	7740	9720	10800	11880
		L	6364	7992	8880	9768
Heating capacity	W	H	13800	17500	21000	22500
		M	12006	15225	18270	19575
		L	10074	12775	15330	16425
Power input	W	H	156	174	212	253
Power supply	Ph/V/Hz		1/220/50			
Noise level	dB(A)	H	48	50	52	54
Water flow	l/min		24.7	31.0	34.4	37.8
Water pressure drop	kPa		40	40	40	50
Water inlet/outlet connection pipe			Rc3/4"			
Condensate water connection pipe			R3/4"			
Net weight (no air return box)	kg		26.2	29.1	32.8	35.1
Gross weight (no air return box)	kg		30.1	33.4	38.1	40.4
Net weight (with air return box)	kg		31.4	34.8	39.2	42.2
Gross weight (with air return box)	kg		34.7	38.5	44.0	46.9
Net dimension (L/W/H) (no air return box)	mm		1443/470/225	1593/470/225	1813/470/225	2013/470/225
Shipping dimension (L/W/H) (no air return box)	mm		1490/542/248	1640/542/248	1860/542/248	2060/542/248
Net dimension (L/W/H) (with rear air return box)	mm		1443/511/225	1593/511/225	1813/511/225	2013/511/225
Shipping dimension (L/W/H) (with rear air return box)	mm		1490/542/248	1640/542/248	1860/542/248	2060/542/248
Net dimension (L/W/H) (with bottom air return box)	mm		1443/492/246	1593/492/246	1813/492/246	2013/492/246
Shipping dimension (L/W/H) (with bottom air return box)	mm		1490/522/263	1640/522/263	1860/522/263	2060/522/263
Controller (optional)	Wired		HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK
Three way valve (optional)			3VFCE	3VFCE	3VFCE	3VFCE

Options:
1.Three way valve; 2. The enlarged drain pan ;

Note:
1. Specifications are based on the following conditions:
Cooling: Dry bulb temperature 27°C, wet bulb temperature 19.5°C, the water inlet temperature 7°C, 5°C temperature difference between water inlet and water outlet.
Heating: Dry bulb temperature 21°C, the water inlet temperature 60°C, the water flow is the same to that at the cooling test condition.
2. The sound pressure level is measured in a semi-anechoic chamber by units without air return box &filter. The measured sound pressure level may be different from the data in the table due to the using condition or other reasons. The sound pressure level of the unit with the air return box &filter is higher than that of the unit without the air return box &filter.
3. The ESP, air volume, cooling and heating capacity of the above table are measured by the units without the air return box &filter. For the units with the air return box &filter, the air volume, cooling and heating capacity shall be multiplied by the correction factor of 0.9.
4. The unit has left water inlet or right water inlet type, which can be temporarily adjusted on site. It is not recommended to adjust, because the cooling and heating capacity hall be multiplied by the correction factor of 0.92 after the adjustment.
5. Due to the our policy of innovation, some specifications may be changed without notification.

Ceiling Concealed Fan Coil

MODEL			FCE-034ACN2B	FCE-051ACN2B	FCE-068ACN2B	FCE-085ACN2B	FCE-102ACN2B
	Rear air return box&filter		FCE-034ACB2B	FCE-051ACB2B	FCE-068ACB2B	FCE-085ACB2B	FCE-102ACB2B
	Bottom air return box&filter		FCE-034ACD2B	FCE-051ACD2B	FCE-068ACD2B	FCE-085ACD2B	FCE-102ACD2B
	No air return box&filter						
Air volume	m³/h	H	340	510	680	850	1020
		M	258	388	517	646	775
		L	177	265	354	442	530
ESP	pa		12				
Cooling capacity	W	H	2410	3550	4550	5510	6200
		M	2169	3195	4095	4959	5580
		L	1783	2627	3367	4077	4588
Heating capacity	W	H	3700	5600	7450	8800	10200
		M	3219	4872	6482	7656	8874
		L	2701	4088	5439	6424	7446
Power input	W	H	37	52	62	76	96
Power supply	Ph/V/Hz		1/220/50				
Noise level	dB(A)	H	36	38	39	43	45
Water flow	l/min		6.9	10.2	13.0	15.8	17.8
Water pressure drop	kPa		30	30	30	30	40
Water inlet/outlet connection pipe			Rc3/4"				
Condensate water connection pipe			R3/4"				
Net weight (no air return box)	kg		11.6	14.1	15.8	17.5	18.4
Gross weight (no air return box)	kg		13.9	16.6	18.5	20.4	21.6
Net weight (with air return box)	kg		14.2	17.2	19.2	21.2	22.5
Gross weight (with air return box)	kg		16.4	19.4	21.6	23.8	25.5
Net dimension (L/W/H) (no air return box)	mm		693/470/225	823/470/225	928/470/225	1013/470/225	1143/470/225
Shipping dimension (L/W/H) (no air return box)	mm		740/542/248	870/542/248	975/542/248	1060/542/248	1190/542/248
Net dimension (L/W/H) (with rear air return box)	mm		693/511/225	823/511/225	928/511/225	1013/511/225	1143/511/225
Shipping dimension (L/W/H) (with rear air return box)	mm		740/542/248	870/542/248	975/542/248	1060/542/248	1190/542/248
Net dimension (L/W/H) (with bottom air return box)	mm		693/492/246	823/492/246	928/492/246	1013/492/246	1143/492/246
Shipping dimension (L/W/H) (with bottom air return box)	mm		740/522/263	870/522/263	975/522/263	1060/522/263	1190/522/263
Controller (optional)	Wired		HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK
Three way valve (optional)			3VFCE	3VFCE	3VFCE	3VFCE	3VFCE

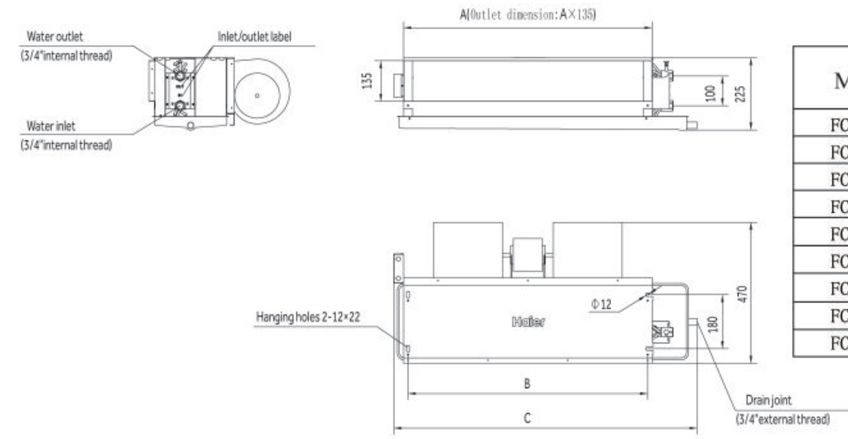
MODEL			FCE-136ACN2B	FCE-170ACN2B	FCE-204ACN2B	FCE-238ACN2B
	No air return box&filter					
	Rear air return box&filter		FCE-136ACB2B	FCE-170ACB2B	FCE-204ACB2B	FCE-238ACB2B
	Bottom air return box&filter		FCE-136ACD2B	FCE-170ACD2B	FCE-204ACD2B	FCE-238ACD2B
Air volume	m³/h	H	1360	1700	2040	2380
		M	1034	1292	1550	1809
		L	707	884	1061	1238
ESP	pa		12			
Cooling capacity	W	H	8600	10800	12000	13200
		M	7740	9720	10800	11880
		L	6364	7992	8880	9768
Heating capacity	W	H	13800	17500	21000	22500
		M	12006	15225	18270	19575
		L	10074	12775	15330	16425
Power input	W	H	134	152	189	228
Power supply	Ph/V/Hz		1/220/50			
Noise level	dB(A)	H	46	48	50	52
Water flow	l/min		24.7	31.0	34.4	37.8
Water pressure drop	kPa		40	40	40	50
Water inlet/outlet connection pipe			Rc3/4"			
Condensate water connection pipe			R3/4"			
Net weight (no air return box)	kg		26.2	29.1	32.8	35.1
Gross weight (no air return box)	kg		30.1	33.4	38.1	40.4
Net weight (with air return box)	kg		31.4	34.8	39.2	42.2
Gross weight (with air return box)	kg		34.7	38.5	44.0	46.9
Net dimension (L/W/H) (no air return box)	mm		1443/470/225	1593/470/225	1813/470/225	2013/470/225
Shipping dimension (L/W/H) (no air return box)	mm		1490/542/248	1640/542/248	1860/542/248	2060/542/248
Net dimension (L/W/H) (with rear air return box)	mm		1443/511/225	1593/511/225	1813/511/225	2013/511/225
Shipping dimension (L/W/H) (with rear air return box)	mm		1490/542/248	1640/542/248	1860/542/248	2060/542/248
Net dimension (L/W/H) (with bottom air return box)	mm		1443/492/246	1593/492/246	1813/492/246	2013/492/246
Shipping dimension (L/W/H) (with bottom air return box)	mm		1490/522/263	1640/522/263	1860/522/263	2060/522/263
Controller (optional)	Wired		HW-CA101AGK	HW-CA101AGK	HW-CA101AGK	HW-CA101AGK
Three way valve (optional)			3VFCE	3VFCE	3VFCE	3VFCE

Options:
1.Three way valve: 2. The enlarged drain pan ;

Note:
1. Specifications are based on the following conditions ;
Cooling: Dry bulb temperature 27°C, wet bulb temperature 19.5°C, the water inlet temperature 7°C, 5°C temperature difference between water inlet and water outlet.
Heating: Dry bulb temperature 21°C, the water inlet temperature 60°C, the water flow is the same to that at the cooling test condition.
2. The sound pressure level is measured in a semi-anechoic chamber by units without air return box &filter. The measured sound pressure level may be different from the data in the table due to the using condition or other reasons. The sound pressure level of the unit with the air return box &filter is higher than that of the unit without the air return box &filter.
3. The ESP, air volume, cooling and heating capacity of the above table are measured by the units without the air return box &filter. For the units with the air return box &filter, the air volume, cooling and heating capacity shall be multiplied by the correction factor of 0.9.
4. The unit has left water inlet or right water inlet type, which can be temporarily adjusted on site. It is not recommended to adjust, because the cooling and heating capacity hall be multiplied by the correction factor of 0.92 after the adjustment.
5. Due to the our policy of innovation, some specifications may be changed without notification.

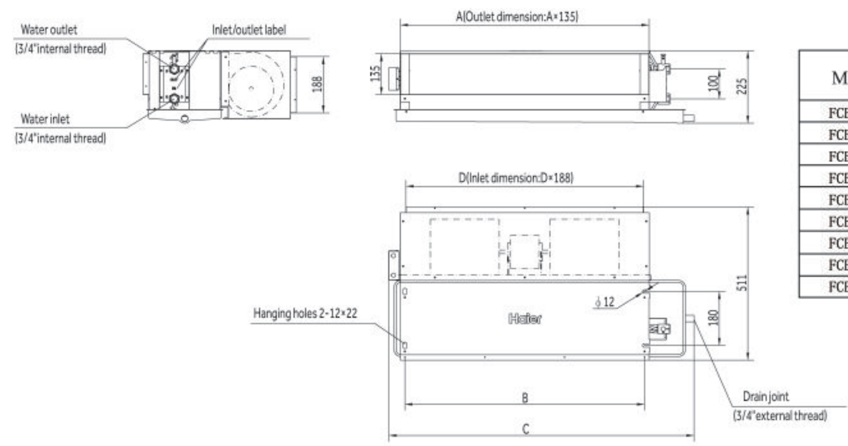
Unit Dimension Diagram

Horizontal concealed units



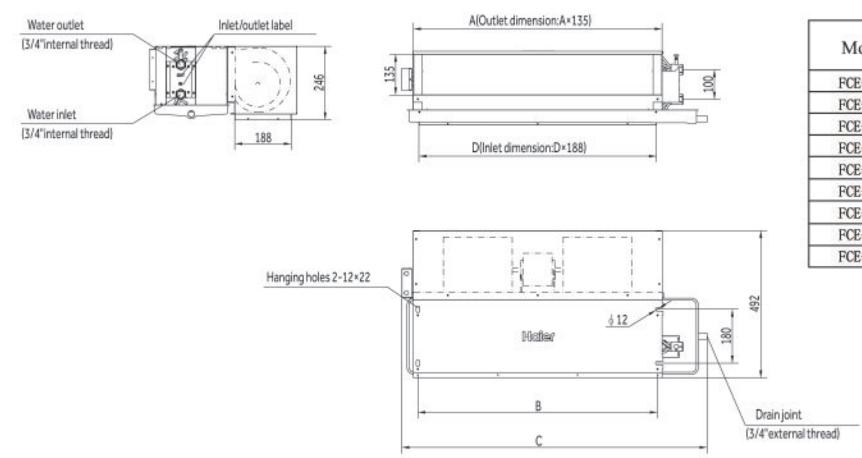
Model	Overall dimension (mm)		
	A	B	C
FCE-034	510	480	693
FCE-051	640	610	823
FCE-068	745	715	928
FCE-085	830	800	1013
FCE-102	960	930	1143
FCE-136	1260	1230	1443
FCE-170	1410	1380	1593
FCE-204	1630	1600	1813
FCE-238	1830	1800	2013

Horizontal concealed units with back return air box



Model	Overall dimension (mm)			
	A	B	C	D
FCE-034	510	480	693	473
FCE-051	640	610	823	603
FCE-068	745	715	928	708
FCE-085	830	800	1013	793
FCE-102	960	930	1143	923
FCE-136	1260	1230	1443	1223
FCE-170	1410	1380	1593	1373
FCE-204	1630	1600	1813	1593
FCE-238	1830	1800	2013	1793

Horizontal concealed units with bottom return air box



Model	Overall dimension (mm)			
	A	B	C	D
FCE-034	510	480	693	473
FCE-051	640	610	823	603
FCE-068	745	715	928	708
FCE-085	830	800	1013	793
FCE-102	960	930	1143	923
FCE-136	1260	1230	1443	1223
FCE-170	1410	1380	1593	1373
FCE-204	1630	1600	1813	1593
FCE-238	1830	1800	2013	1793

Four-way Hydro Cassette Fan Coil

2 pipe system

AHRI CERTIFIED® www.ahridirectory.org

Features

Easy Design

Ultra thin design

AQUA cassette height is 183mm (3.6/3.8/4.0kW), lower 220mm normal product at least, give the designer extreme flexibility in design work.

Three way valve choice

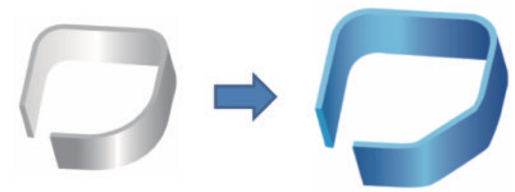
According to customer need Haier can supply the three way valve to match with cassette and duct fan coil, give the flexibility in design work .

KEY FEATURE

High Efficiency

New heat exchanger design

The area of exchanger is enlarge to increase heating efficiency.



Stylish Design

“Spiral ” panel

"Spiral" concept, "AUQA" image .

Flap is closed when air conditioner off

There is no crack from the flap and the panel when the air conditioner off. More elegance .

Hidden LCD display

The 360°smart flow cassette have particular hidden LCD display design. Green display for cooling red display for heating, it is very easy identified by opening mode.

ABS material panel

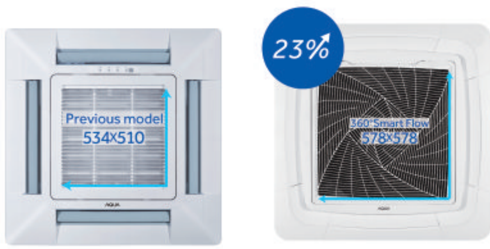
ABS material makes the panel "piano white" , different from "dark white" PS material color. The panel and flap are the same material. After 10 years, the panel color won't change to yellow color because the ABS material prevents discoloration against light raying.

KEY FEATURE

Low Sound Level

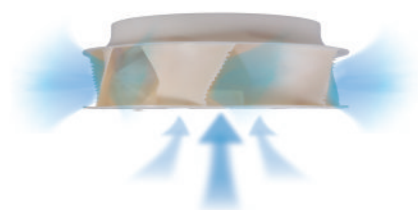
Super big inlet grille

Compared to conventional air inlet grill, we enlarge the air inlet area by 23%, lower air speed & lower the sound level.



New designed fan

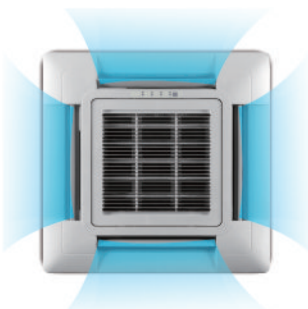
The diameter of new fan is enlarged based on acrodynamic theory, so that there is the least resistance against airflow. Reduce 3dB(A) for sound level.



Comfort Airflow

Round-way air supply

360° air supply without blind spot.



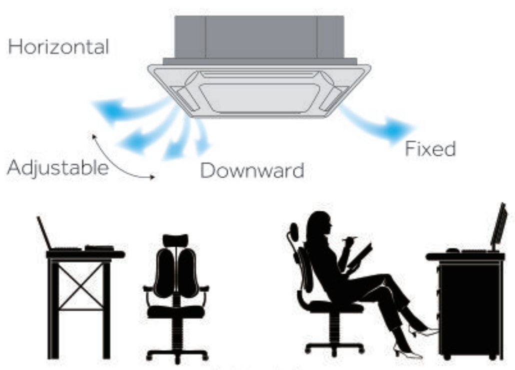
4 way airflow

Unique 360° air flow design

Individual flap control

The four flaps can be controlled individually according to end users by controller, providing maximum comfort throughout the room, it is a good solution to avoid "air conditioning disease".

corner installation solution

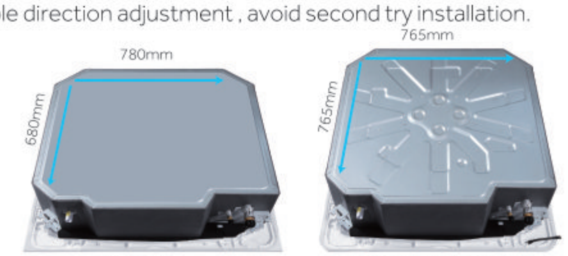


comfort solution

Easy Installation

Square hanger

Innovative square hanger, flexible direction adjustment , avoid second try installation.

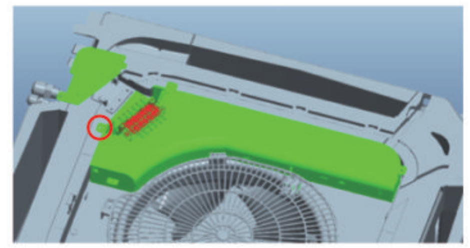


Common

360° samrt flow cassette

One screw for wiring

Installer can finish wiring by take down one screw.

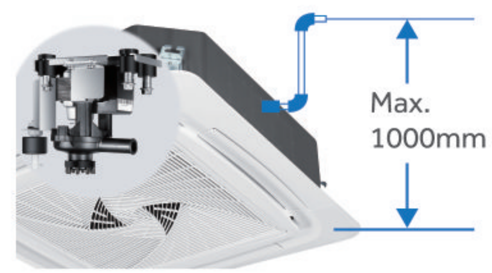


Convenient clip

There is clip to lock the panel. Just one installer can finish the screwing for panel. Save manpower and easy installation.

High lift-up drain pump

It can lifts condensed water up to 1000mm, which is more flexible to install the duct according to the layout.



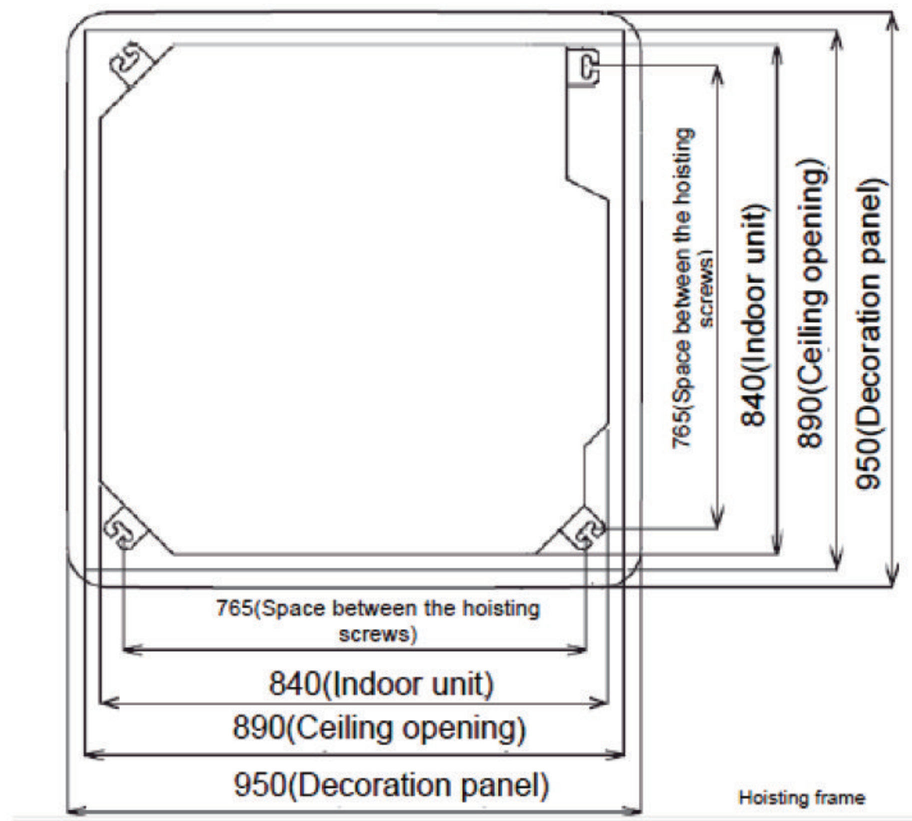
MODEL			FCB-040BCN2B	FCB-058BCN2B	FCB-068BCN2B	FCB-085BCN2B	FCB-102BCN2B
Air volume	m³/h	H	400	580	680	850	1020
		M	305	465	525	700	840
		L	230	350	420	520	620
Cooling capacity	W	H	3600	3800	4000	4980	5810
		M	3132	3306	3500	4356	4943
		L	2664	2812	2970	3696	4230
Heating capacity	W	H	6000	6200	6500	8100	9450
		M	5280	5456	5780	7208	8315
		L	4560	4712	4940	6155	7182
Power input	W	H	52	55	62	71	80
Power supply	Ph/V/Hz		1/220/50				
Noise level	dB(A)	H	33	34	34	36	41
		M	26	28	28	32	35
		L	22	24	24	28	31
Water flow	l/min		10.3	10.9	11.5	14.4	16.7
Water pressure drop	kPa		20	21	22	28	38
Net weight	kg		24.2	24.2	24.2	26	26
Gross weight	kg		30.8	30.8	30.8	32.5	32.5
Water inlet/outlet connection pipe			Rc3/4"				
Condensate water connection pipe			DN20				
External dimension(L/W/H)	mm		840/840/183			840/840/204	
Packing dimension(L/W/H)	mm		983/983/268			983/983/290	
Panel			PB-950KB	PB-950KB	PB-950KB	PB-950KB	PB-950KB
Panel External dimensions(W/D/H)	mm		950/950/50	950/950/50	950/950/50	950/950/50	950/950/50
Panel Shipping dimensions(W/D/H)	mm		1000/1000/110	1000/1000/110	1000/1000/110	1000/1000/110	1000/1000/110
Panel Net/Shipping weight	kg		6.5/9	6.5/9	6.5/9	6.5/9	6.5/9
Controller	wireless		YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01
	wired		YR-E20	YR-E20	YR-E20	YR-E20	YR-E20
Three way valve (optional)			3VFCB	3VFCB	3VFCB	3VFCB	3VFCB

MODEL			FCB-136BCN2B	FCB-170BCN2B	FCB-204BCN2B	FCB-238BCN2B
Air volume	m³/h	H	1360	1700	2040	2380
		M	1120	1400	1650	1960
		L	840	1000	1250	1480
Cooling capacity	W	H	7600	9200	11200	12600
		M	6579	8215	9663	11162
		L	5585	7132	8500	9763
Heating capacity	W	H	12200	14800	17130	18900
		M	11223	12727	14903	16443
		L	9638	10952	12847	14175
Power input	W	H	115	152	180	228
Power supply	phase/Voltage/Hz		1/220/50			
Noise level	dB(A)	H	44	48	50	52
		M	40	40	42	48
		L	34	33	34	43
Water flow	l/min		21.8	26.4	32.1	36.2
Water pressure drop	kPa		33	40	40	50
Net weight	kg		30.5	30.5	33.2	33.2
Gross weight	kg		37.5	37.5	39.7	39.7
Water inlet/outlet connection pipe			Rc3/4"			
Condensate water connection pipe			DN20			
External dimension(L/W/H)	mm		840/840/246		840/840/288	
Packing dimension(L/W/H)	mm		983/983/329		983/983/378	
Panel			PB-950KB	PB-950KB	PB-950KB	PB-950KB
Panel External dimensions(W/D/H)	mm		950/950/50	950/950/50	950/950/50	950/950/50
Panel Shipping dimensions(W/D/H)	mm		1000/1000/110	1000/1000/110	1000/1000/110	1000/1000/110
Panel Net/Shipping weight	kg		6.5/9	6.5/9	6.5/9	6.5/9
Controller (optional)	wireless		YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01
	wired		YR-E20	YR-E20	YR-E20	YR-E20
Three way valve (optional)			3VFCB	3VFCB	3VFCB	3VFCB

Option:
1.Three way valve;
Note:
1. Specifications are based on the following conditions;
Cooling: Dry bulb temperature 27°C, wet bulb temperature 19.5°C, the water inlet temperature 7°C, 5°C temperature difference between water inlet and water outlet.
Heating: Dry bulb temperature 21°C, the water inlet temperature 60°C, the water flow is the same to that at the cooling test condition.
2. Due to the our policy of innovation, some specifications may be changed without notification.

Chilled Water Cassette Dimension

(1)Position of ceiling opening and unit and hoisting screws



Compact Hydro Cassette Fan Coil

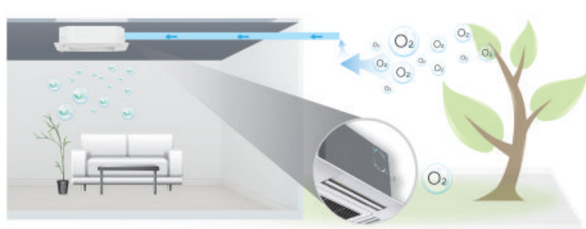
2 pipe system

Features

Comfort

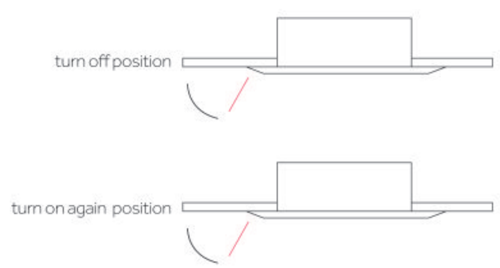
Fresh air inlet

Pre-set fresh air inlet can introduce the outside fresh air into the room, which can greatly improve the indoor air quality & keep people away from "air conditioner symptom".



Convenience swing control

Memory function in swing direction make the flap come to the direction when the cassette unit is turned on again.

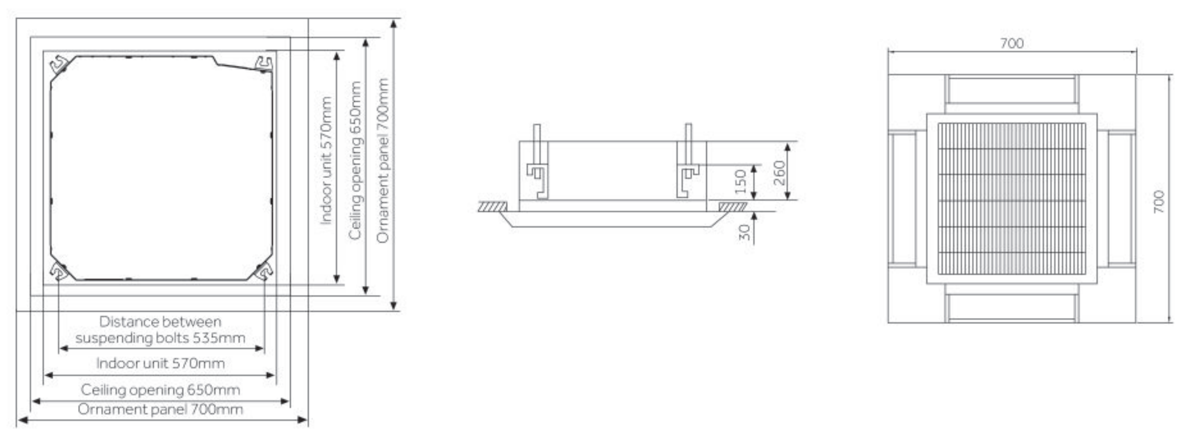


Specification & Dimension

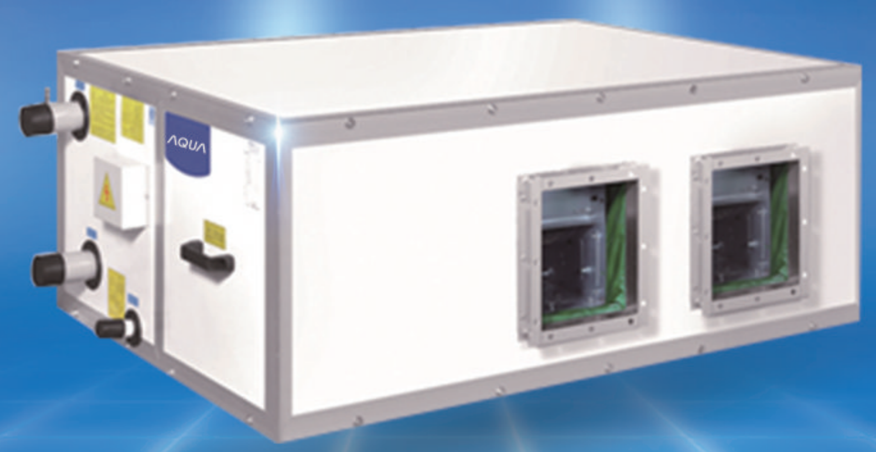
MODEL			FCB-034BCN2A	FCB-051BCN2A
Air volume	m³/h	H	340	510
		M	280	420
		L	210	300
Cooling capacity	W	H	2700	3550
		M	2354	3074
		L	2014	2660
Heating capacity	W	H	4180	5660
		M	3511	4753
		L	3009	4075
Power input	W	H	37	52
Power supply	Ph/V/Hz		1/220/50	
Noise level	dB(A)	H	28	37
		M	26	32
		L	24	28
Water flow	l/min		7.7	10.2
Water pressure drop	kPa		10	16
Net weight	kg		18.7	18.7
Gross weight	kg		21.7	21.7
Water inlet/outlet connection pipe			Rc3/4"	
Condensate water connection pipe			DN25	
External dimension(L/W/H)	mm		570/570/260	
Packing dimension(L/W/H)	mm		718/680/380	
Panel			PB-700IB	
Panel Net/Shipping weight	kgs		2.8/4.8	
Panel Shipping dimensions(W/D/H)	mm		700/700/60	
Panel Shipping dimensions(W/D/H)	mm		740/750/115	
Controller(standard)	wireless		YR-H005	

Note:
1. Specifications are based on the following conditions;
Cooling: Dry bulb temperature 27°C, wet bulb temperature 19.5°C, the water inlet temperature 7°C, 5°C temperature difference between water inlet and water outlet.
Heating: Dry bulb temperature 21°C, the water inlet temperature 60°C, the water flow is the same to that at the cooling test condition.
2. Due to the our policy of innovation, some specifications may be changed without notification.

Chilled Water Cassette Dimension



Air Handling Unit



AQUA ceiling mounted air handling units are one type of terminals of central air-conditioning systems, which are designed to cool, heat, humidify and de-humidify, filter and clean the fresh air, etc. Product structure has some features like, novelty, beautiful appearance, easy installation, advanced technical performance, stable and reliable running. The unit is widely used in industrial air conditioning systems in electronic, instrument, machinery, metallurgy, chemical, textile, medicine, food, tobacco, and transport, energy and other industrial fields, as well as be used in comfortable air conditioning systems in high-rise buildings, hotels, restaurants, cinemas and theatres, shopping malls, stadiums and other large public buildings.

Nomenclature

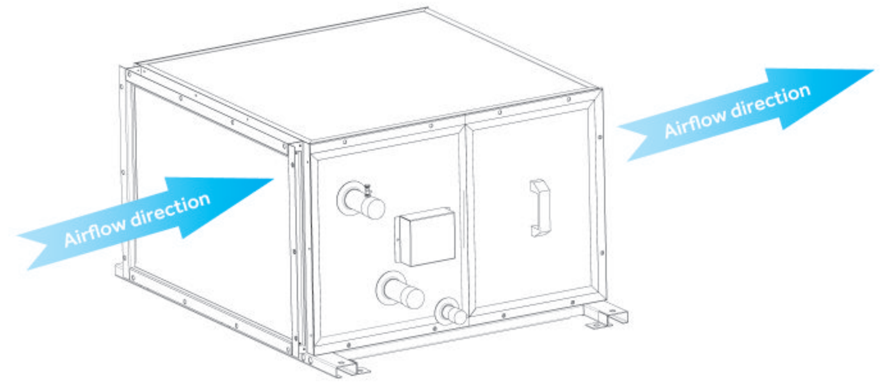
G - 15 C 4 S L H 27 □ □ □ □

- Air handling unit (G)
- Nominal airflow: ×10³m³/h (15)
- Mounting type: C-Ceiling mounted type, S-Stand mounted type, L-Lie mounted type
- Cooling coil: 4-4 Rows coil, 6-6 Rows coil
- Air outlet type: U-Up air outlet, S-Side air outlet
- Pipe connection: L-Left handling, R-Right handling
- Air condition: H-Return air condition, X-Fresh air condition
- External total pressure: ×10Pa
- Humidification method: No code-No humidifier, W-Wet-film humidifier, D-Dry steam humidifier, P-High pressure spraying humidifier
- Motor type: No code-Three-phase asynchronous motor, I-Inverter motor
- Electric heating: No code- No Electric heating, E-Electric heating
- Classification of filter: No code- G2 grade nylon net filter, 3-G3 grade primary efficiency filter, 4-G4 grade primary efficiency filter, 5-F5 grade medium efficiency filter, 6-F6 grade medium efficiency filter, 7- F7 grade medium efficiency filter

KEY FEATURE

Orientation

Judgment basis: facing the return air inlet (along the airflow direction), if water inlet and outlet pipe and condensate pipe are in left, then it is left connected type unit, on the contrary, it is right connected type unit. The picture below is the right connected type unit.

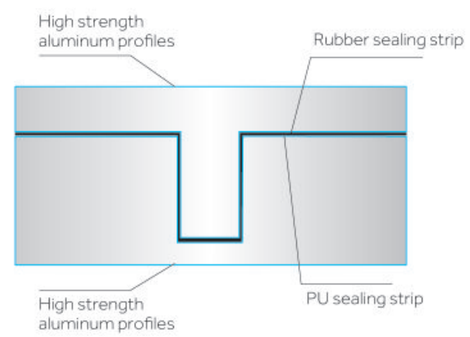


Patented Box Structure, with More Excellent Performance

Higher strength, lower air leak

Use the patent of no-frame design, high strength aluminum profiles with concave-convex chamfer embedded type to connect and seal, and be fixed in a way matching the bolting.

Adopt rubber sealing strip, PU sealing strip and tenons of the structure itself contains to triple seal through interlocking connection, fundamentally solving the problem of air leakage, to ensure the strength of box body, and the air leakage rate is no more than 0.13%.

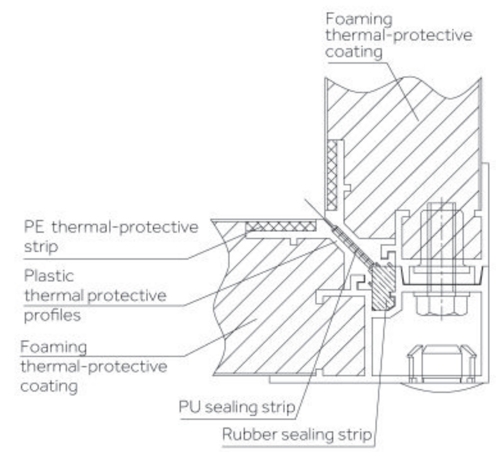


With trebling protections, prevent cold bridge

One protection: Paste PE thermal insulation materials in the metal inner plate to insulate cold, heat from transferring.

Double protection: Use PVC plastic insulating material jointing lap between the metal inner plate and aluminum profiles panel, to insulate cold, heat from transferring.

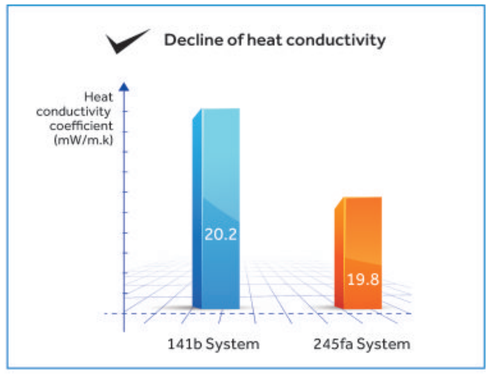
Triple protection: Fill with environmental foaming material HFC-245fa, between the metal inner plate and metal panel, and the surface of aluminum profiles, the foam density is up to 50 kg/m³.

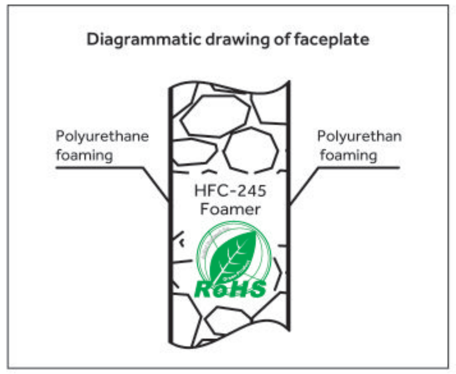


KEY FEATURE

Environmental Protection Materials Make It Safe and Secure

- The unit materials are all conformed to the requirements of the EU RoHS environmental protection certification.
- Panel is made of high-pressure polyurethane foam material, and the foamer uses special environmental protection foamer of HFC-245fa, safe and harmless, clean and environmental protection, with good heat preservation and sound insulation.
- The thermal conductivity of box is no more than 0.0198 W/m °C and better than that of conventional 141 b system foamer by more than 2%, which effectively ensure the cold heat supply capacity of the unit, and reduce the operation cost.



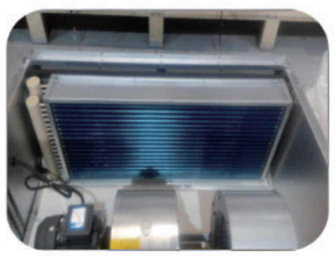


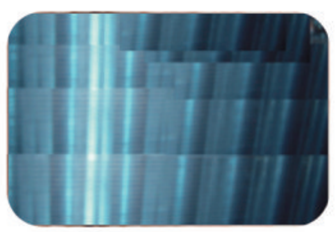
Draught Fan in High Quality Brings More Peace

- The unit adopts high quality and efficient motor, to make the unit operation more peaceful.
- Each fan needs to pass the strict accurate dynamic and static balance test and safety test, to ensure safety and reliability.
- The fan has wide optional wind pressures, which can meet the need for more occasions.

Heat Exchanger

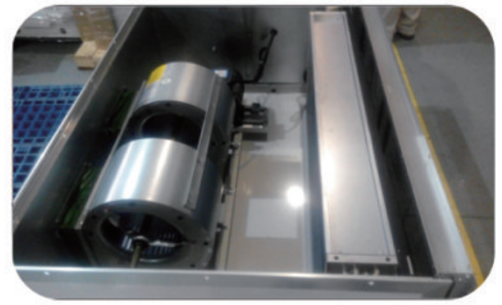
- Heat exchanger is made of high quality seamless copper tube and corrugated type hydrophilic aluminum foil, with the advanced mechanical or hydraulic tube expanding technology to make them closely integrated, and each heat exchanger passes the pressure seal leakage test, to guarantee the product excellent performance and reliable quality.
- The heat exchanger with corrugated sheet has greater heat transfer area than that with ordinary plain film, while the hydrophilic aluminum foil has better resistance to oxidation than ordinary plain foil, with more outstanding heat transfer effect, which effectively guarantee the heat transfer effect and service life of heat exchanger.
- Reasonable copper tube arrangement, scientific segment pitch and waterway route, so as to ensure the coil with high heat transfer performance and low air resistance, which can meet the needs of a wide range of cooling and heating. A number of different pipeline cycle designing schemes is enough to provide users with the best water flow rate and reasonable water resistance.





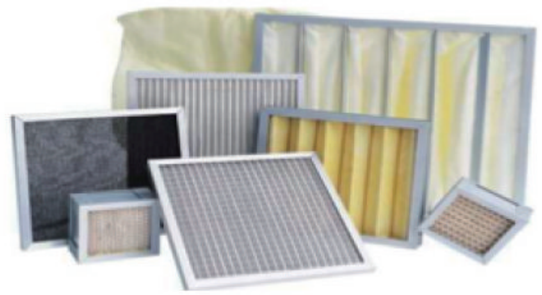
Entire Condensate Plate

- Well-designed entire condensate plate and extremely thick lining heat insulation materials ensure the unit to have no condensation dripping water under severe environment conditions.
- In-time draining of condensate reduce the time of condensate plate "touching water", which can not only reduce the condensate plate corrosion, but also avoid the condensate plate breeding bacteria, so as to ensure the indoor air quality.



Filter

- Mouldproof plate type thick nylon filter with standard configuration, has features of small initial resistance, high efficiency, stable performance, easy and simple usage and repeatable cleaning usage etc.
- It can provide a higher level of filter efficiency, initial and medium filtration for customer choice, the initial filtration efficiency can reach G3/G4; medium filtration efficiency can reach F5/F6/F7 level, which can effectively remove dust PM2.5 particles.



Air Handling Unit

MODEL			G-02C4	G-03C4	G-04C4	G-05C4	G-06C4	G-08C4	G-10C4	G-12C4	G-15C4
Nominal airflow		m³/h	2000	3000	4000	5000	6000	8000	10000	12000	15000
External total pressure		Pa	170	170	220	220	220	270	270	270	320
Nominal cooling capacity	Return air condition	kW	10.5	15.7	22.2	26.2	31.9	42.4	54.3	65.7	82.8
	Fresh air condition	kW	22.2	33.8	47.1	60.0	66.7	88.4	112.9	136.6	171.8
Nominal heating capacity	Return air condition	kW	15.8	22.5	32.1	39.2	47.4	62.8	79.2	95.6	119.9
	Fresh air condition	kW	23.0	34.4	46.7	58.7	68.4	90.5	114.0	137.5	172.2
Motor power input		kW	0.37	0.55	1.1	1.1	1.5	2.2	2.2	3.0	4.0
Noise		dB(A)	58	58	60	62	62	64	66	68	70
Water flow rate	Return air condition	L/s	0.50	0.76	1.06	1.25	1.52	2.03	2.59	3.14	3.95
	Fresh air condition	L/s	1.06	1.61	2.25	2.87	3.19	4.22	5.39	6.52	8.21
Water pressure drop	Return air condition	kPa	19.4	34.2	64.6	18.9	23.0	27.4	52.3	55.0	68.4
	Fresh air condition	kPa	15.7	26.8	42.3	80.6	21.7	26.5	50.6	54.1	68.0
Pipe diameter	Inlet/out pipe	DN	40	40	40	50	50	50	50	50	65
	Condensate pipe	DN	25	25	25	25	25	25	25	25	25
External dimension	Unit length	mm	850	850	850	850	850	900	950	950	1050
	Unit width	mm	850	1000	1300	1400	1600	1700	1950	1950	2250
	Unit Depth	mm	580	580	580	580	580	680	730	830	880
Weight		kg	94	116	136	163	173	199	236	284	326

*Power supply: 3~/380V/50Hz

MODEL			G-02C6	G-03C6	G-04C6	G-05C6	G-06C6	G-08C6	G-10C6	G-12C6	G-15C6
Nominal airflow		m³/h	2000	3000	4000	5000	6000	8000	10000	12000	15000
External total pressure		Pa	120	120	170	170	170	220	220	220	270
Nominal cooling capacity	Return air condition	kW	12.7	19.4	26.4	33.7	40.9	54.4	66.1	79.9	100.6
	Fresh air condition	kW	28.1	42.2	58.2	71.7	86.8	115.2	140.0	168.9	212.2
Nominal heating capacity	Return air condition	kW	18.2	27.4	37.3	46.9	56.6	75.1	92.8	111.8	140.1
	Fresh air condition	kW	27.2	40.7	54.8	68.2	82.1	108.9	134.7	162.2	203.0
Motor power input		kW	0.37	0.55	1.1	1.1	1.5	2.2	2.2	3.0	4.0
Noise		dB(A)	58.0	58.0	60.0	62.0	62.0	64.0	66.0	68.0	70.0
Water flow rate	Return air condition	L/s	0.61	0.93	1.26	1.61	1.95	2.60	3.16	3.82	4.81
	Fresh air condition	L/s	1.34	2.02	2.78	3.43	4.14	5.50	6.69	8.07	10.14
Water pressure drop	Return air condition	kPa	7.9	13.6	19.8	37.5	46.1	56.5	32.4	34.6	43.6
	Fresh air condition	kPa	31.4	52.9	78.4	46.0	56.4	69.0	49.7	53.0	66.5
Pipe diameter	Inlet/out pipe	DN	40	40	40	50	50	50	50	50	65
	Condensate pipe	DN	25	25	25	25	25	25	25	25	25
External dimension	Unit length	mm	850	850	850	850	850	900	950	950	1050
	Unit width	mm	850	1000	1300	1400	1600	1700	1950	1950	2250
	Unit Depth	mm	580	580	580	580	580	680	730	830	880
Weight		kg	98	122	144	174	183	205	242	297	334

*Power supply: 3~/380V/50Hz

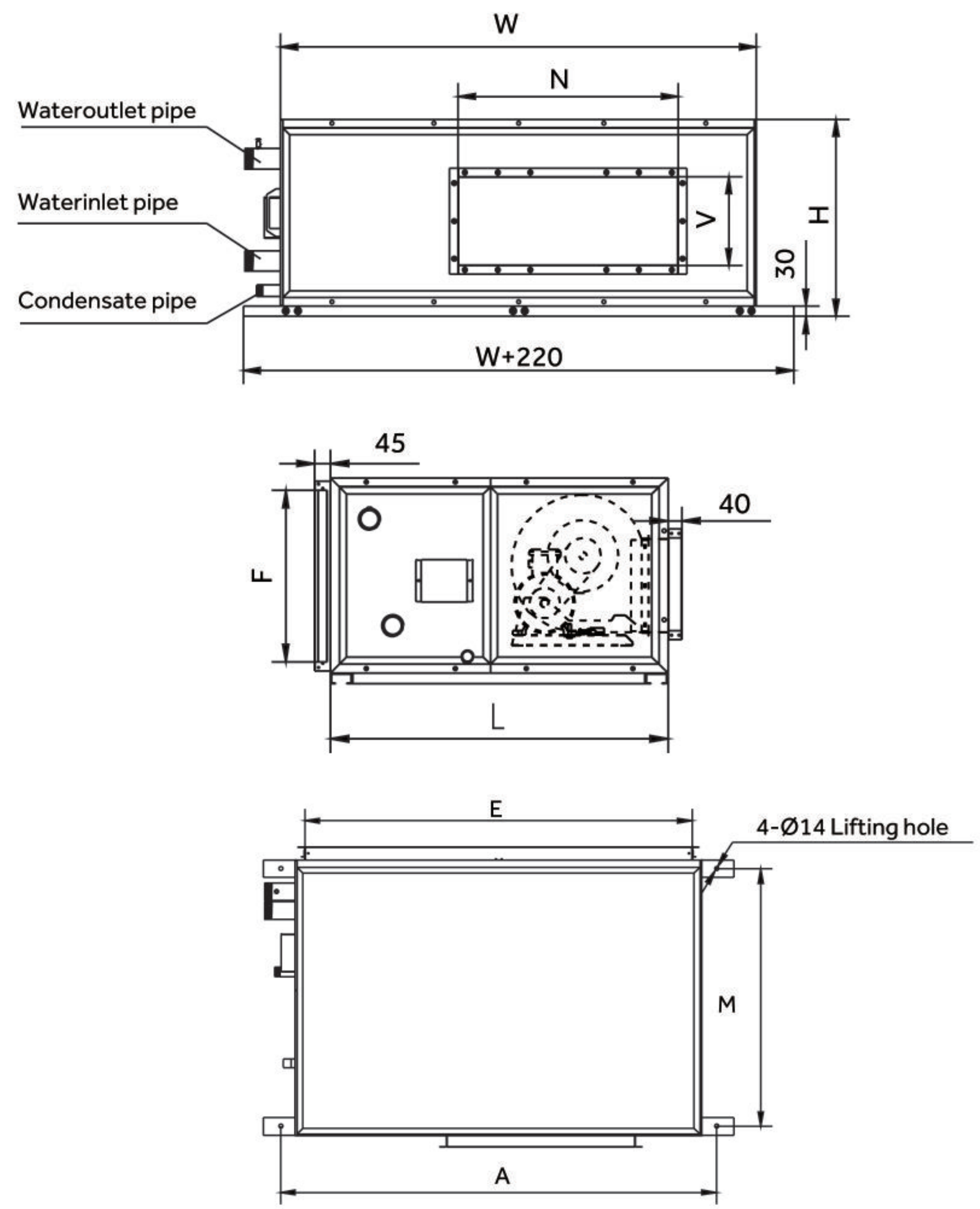
Note: 1. Above parameters are based on the standard products.
2. Except above standard models, AQUA also can be customized products according to customer's requirements. The specific parameters will be subject to design drawings of AQUA.
3. Standard return air cooling conditions: chilled water inlet/outlet at 7 / 12°C; air inlet at 27°CDB / 19.5°CWB.
4. Standard return air heating conditions: hot water inlet at 60°C; air inlet at 21°CDB. The water flow is the same to chilled water flow.
5. Cooling conditions of fresh air unit: chilled water inlet/outlet at 7 / 12°C; air inlet at 35°CDB / 28°CWB.
6. Heating conditions of fresh air unit: hot water inlet at 60°C; air inlet at 7°C DB. The water flow is the same to chilled water flow.
7. The external total pressure in the table is rated value, customers need to provide actual required value when placing orders.

Comparison table between external total pressure and motor power input

MODEL	Airflow (m³/h)	Motor power input under different external total pressure (kW)							
		120Pa	170Pa	220Pa	270Pa	320Pa	370Pa	420Pa	470Pa
G-02C4	2000	0.37	**0.37**	0.55	0.55	0.55	0.55	/	/
G-02C6		**0.37**	0.55	0.55	0.55	0.55	0.75	/	/
G-03C4	3000	0.55	**0.55**	0.75	0.75	0.75	1.1	/	/
G-03C6		**0.55**	0.75	0.75	0.75	1.1	1.1	/	/
G-04C4	4000	0.75	0.75	**1.1**	1.1	1.1	1.1	/	/
G-04C6		0.75	**1.1**	1.1	1.1	1.1	1.5	/	/
G-05C4	5000	0.75	1.1	**1.1**	1.1	1.5	1.5	/	/
G-05C6		1.1	**1.1**	1.1	1.5	1.5	2.2	/	/
G-06C4	6000	1.1	1.1	**1.5**	1.5	1.5	2.2	/	/
G-06C6		1.1	**1.5**	1.5	1.5	2.2	2.2	/	/
G-08C4	8000	/	/	2.2	**2.2**	2.2	2.2	3	3
G-08C6		/	/	**2.2**	2.2	2.2	3	3	3
G-10C4	10000	/	/	2.2	**2.2**	3	3	3	3
G-10C6		/	/	**2.2**	3	3	3	3	4
G-12C4	12000	/	/	3	**3**	4	4	4	4
G-12C6		/	/	**3**	4	4	4	4	5.5
G-15C4	15000	/	/	3	4	**4**	4	5.5	5.5
G-15C6		/	/	4	**4**	4	5.5	5.5	5.5

The values in the table are motor power input under different external total pressure, the bold type values are the motor power input under the nominal pressure.

Air Handling Unit Dimension



Model	Dimension(mm)									inlet/outlet pipe DN	condensate pipe DN
	L	W	H	A	B	E	F	M	N		
G-02C	850	850	580	950	688	787	484	262	232	40	25
G-03C	850	1000	580	1100	688	937	484	262	298	40	25
G-04C	850	1300	580	1400	688	1237	484	262	648	40	25
G-05C	850	1400	580	1500	688	1337	484	262	840	50	25
G-06C	850	1600	580	1700	688	1537	484	262	840	50	25
G-08C	900	1700	680	1800	738	1637	584	289	926	50	25
G-10C	950	1950	730	2050	788	1887	634	341	862	50	25
G-12C	950	1950	830	2050	788	1887	734	341	1114	50	25
G-15C	1050	2250	880	2350	888	2187	784	404	1040	65	25

Reference Projects

Magnetic Bearing Centrifugal Chiller Project



Country: Australia
Project Name :
Marland Mushroom Farm
Product Series:
Air-cooled Magnetic Bearing Centrifugal Chiller



Country: Czech
Project Name :
Svoboda Press S.R.O.
Product Series:
Air-cooled Magnetic Bearing Centrifugal Chiller

Magnetic Bearing Centrifugal Chiller Project


Country: Hong Kong China
Project Name :
Hong Kong North Lantau Hospital
Product Series:
Air-cooled Magnetic Bearing Centrifugal Chiller


Country: Hong Kong China
Project Name :
Tai Po Hospital
Product Series:
Magnetic Bearing Centrifugal Chiller

Reference Projects

Magnetic Bearing Centrifugal Chiller Project

Country: Hong Kong China
Project Name :
Tseung Kwan O Hospital
Product Series:
Magnetic Bearing Centrifugal Chiller

Country: Hong Kong China
Project Name :
Kimberley Hotel
Product Series:
Magnetic Bearing Centrifugal Chiller

Magnetic Bearing Centrifugal Chiller Project

Country: Hong Kong China
Project Name :
Queen Elizabeth Hospital
Product Series:
Magnetic Bearing Centrifugal Chiller

Country: Hong Kong China
Project Name :
Hong Kong Eye Hospital
Product Series:
Magnetic Bearing Centrifugal Chiller

Reference Projects

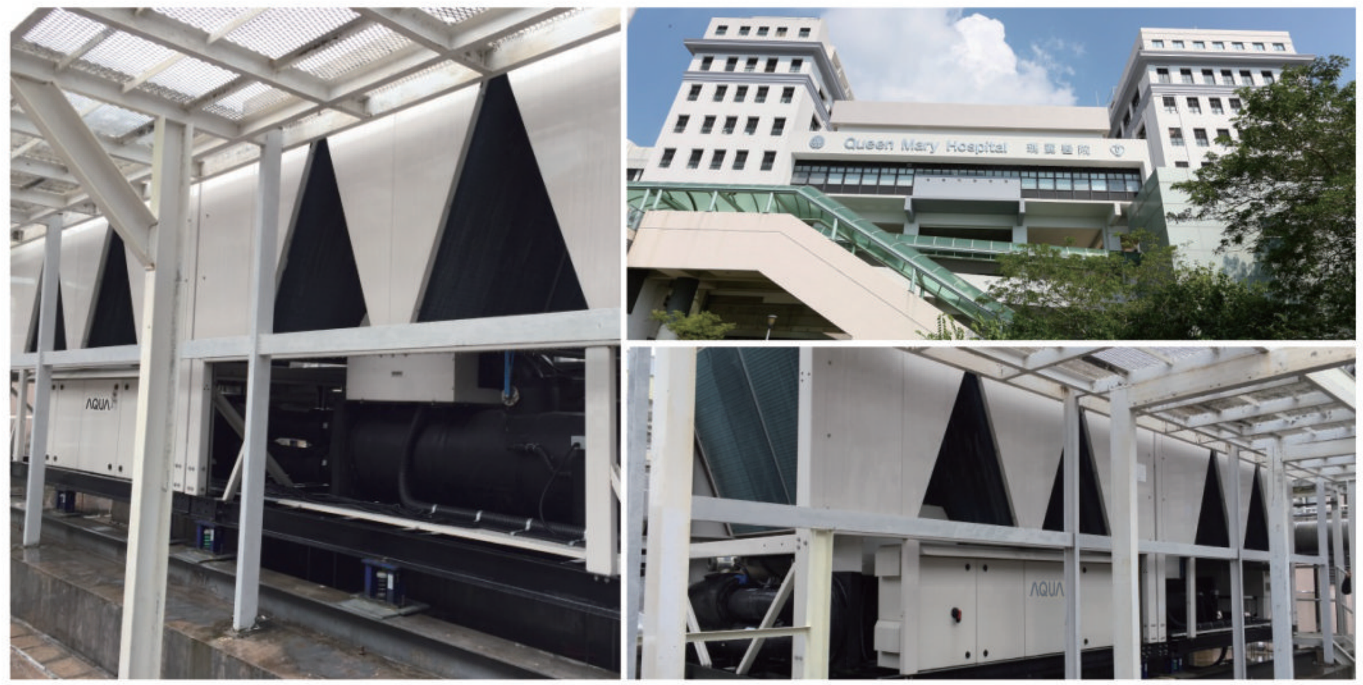
Magnetic Bearing Centrifugal Chiller Project

Country: Hongkong, China
Project Name :
Qing Shan Hospital
Product Series:
Magnetic Bearing Centrifugal Chiller

Country: Hongkong, China
Project Name :
Wong Chuk Hang Hospital
Product Series:
Air-cooled Magnetic Bearing Centrifugal Chiller

Magnetic Bearing Centrifugal Chiller Project

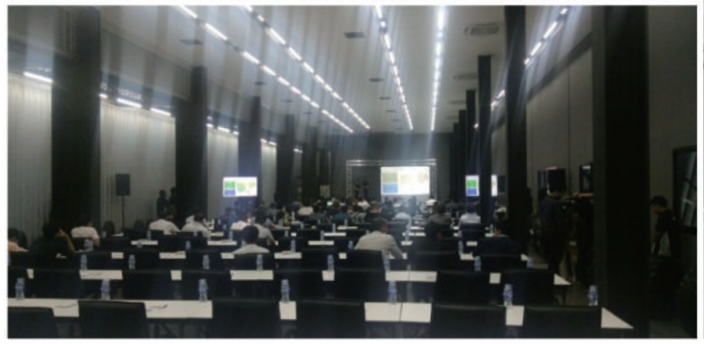
Country: Hongkong, China
Project Name :
Shatin Hospital
Product Series:
Air-cooled Magnetic Bearing Centrifugal Chiller



Country: Hongkong, China
Project Name :
Queen Mary Hospital
Product Series:
Air-cooled Magnetic Bearing Centrifugal Chiller

Reference Projects

Magnetic Bearing Centrifugal Chiller Project


Country: Thailand
Project Name :
Siam Rubber Factory
Product Series:
Magnetic Bearing Centrifugal Chiller


Country: Thailand
Project Name :
Khonkaen University Hospital
Product Series:
Water-cooled Magnetic Bearing Centrifugal Chiller

Magnetic Bearing Centrifugal Chiller Project

Country: china
Project Name:
Beijing World Trade Building
Product Series:
Water-cooled Magnetic Bearing Centrifugal Chiller

Country: China
Project Name:
Henan Nanyang Longxin National Hotel
Product Series:
Water-cooled Magnetic Bearing Centrifugal Chiller

Country: China
Project Name:
Nanjing Drum Tower Hospital
Product Series:
Water-cooled Magnetic Bearing Centrifugal Chiller

Country: China
Project Name:
Chongqing Honeywell car factory
Product Series:
Water-cooled magnetic bearing centrifugal chiller

Country: China
Project Name:
Nanjing Landscape Hotel
Product Series:
Water-cooled Magnetic Bearing Centrifugal Chiller

Country: China
Project Name :
Beijing Metro Fangshan Line
Product Series:
Water-cooled Magnetic Bearing Centrifugal Chiller

Reference Projects

Magnetic Bearing Centrifugal Chiller Project

Country: China
Project Name :
Shenzhen Real Estate Investment Office Building
Product Series:
Water-cooled Magnetic Bearing Centrifugal Chiller

Country: China
Project Name :
Zhengzhou Civil Aviation Airport Jianguo Hotel
Product Series:
Water-cooled Magnetic Bearing Centrifugal Chiller

Air-cooled Modular Chiller Project

Country: Algeria
Project Name :
El Manara Center,blida,algeria
Product Series:
Air-cooled Module Chiller

Country: Bulgaria
Project Name :
Building 6, Business Park Sofia
Product Series:
Air-cooled Modular Chiller

Country: Bulgaria
Project Name :
Building 2a, business park sofia
Product Series:
Air-cooled modular chiller

Air-cooled Modular Chiller Project

Country: Hungary
Project Name :
Hungaroring F1 Budapest
Product Series:
Air-cooled Modular Chiller

Country: Hong Kong China
Project Name :
Bonham Strand Project, Hongkong
Product Series:
Air-cooled Module Chiller

Country: Iran
Project Name :
Monjie Hotel
Product Series:
R22 Air-cooled Modular Chiller

REFERENCE PROJECTS

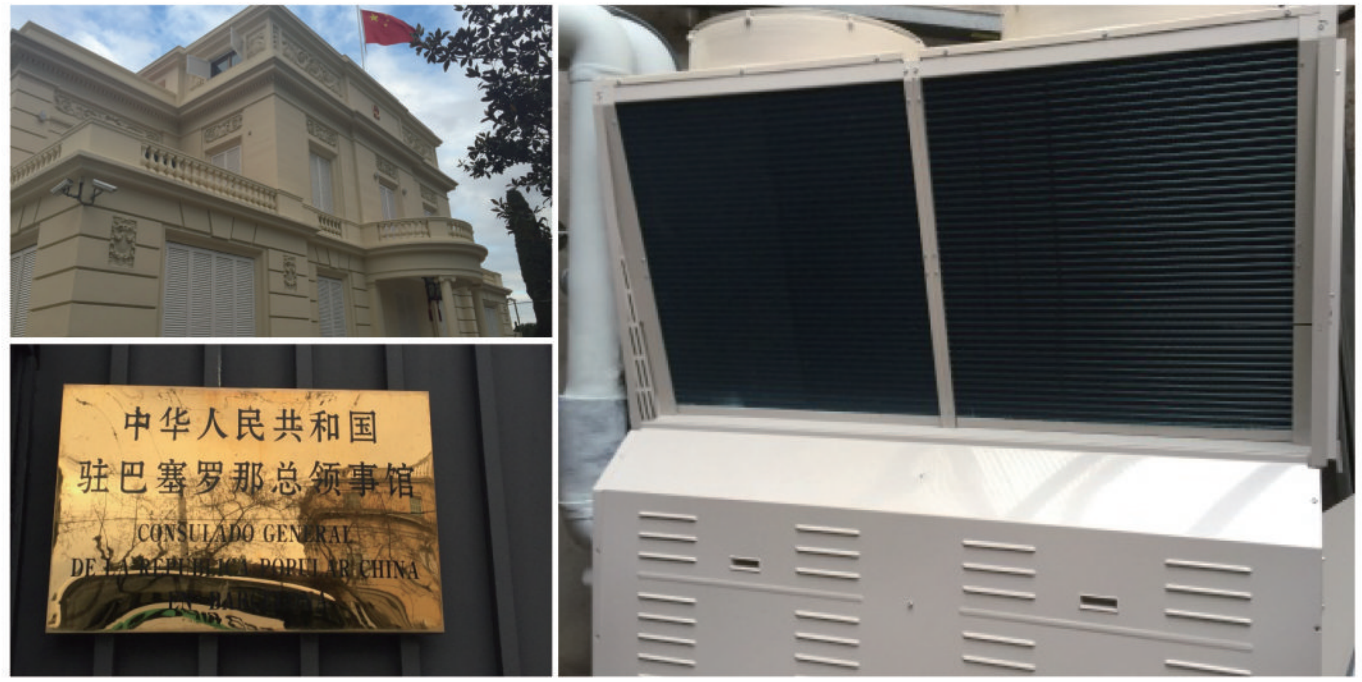
Reference Projects

Air-cooled Modular Chiller Project

Country: Iran
Project Name :
Farnahad Office Building
Product Series:
R22 Air-cooled Modular Chiller

Country: New Zealand
Project Name :
Distinction Hotel
Product Series:
R410a Air-cooled Modular Chiller

Air-cooled Modular Chiller Project



Country: Spain
Project Name :
Chinese Consulate General In Barcelona
Product Series:
R410a Air-cooled Modular Chiller

Country: Spain
Project Name :
Hotel Albolote
Product Series:
Air-cooled Modular Chiller

Reference Projects

Air-cooled Modular Chiller Project

Country: Spain
Project Name :
Granada Hotel
Product Series:
Air-cooled Modular Chiller

Country: China
Project Name :
Heilongjiang Province Military Sub-district
Product Series:
Air-cooled Modular Chiller

Country: China
Project Name :
Jinan Lanxiang Technical School
Product Series:
Air-cooled Modular Chiller

Water-cooled Screw Chiller Project

Country: Pakistan
Project Name :
Zong Cmpak Headquarters
Product Series:
R134a Water-cooled Screw Chiller

Air-cooled Screw Chiller Project

Country: Hong Kong China
Project Name :
Fung Kai Innovative School
Product Series:
Air-cooled Screw Chiller

Country: China
Project Name :
Shanghai Ruijin Hospital
Product Series:
Air-cooled Screw Chiller