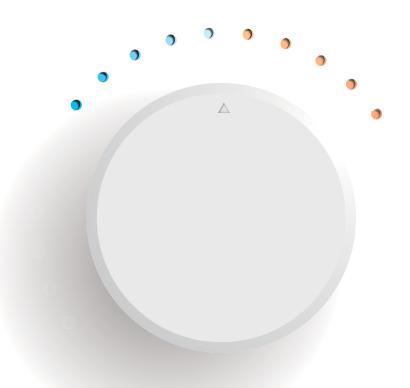
CHILLER









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.



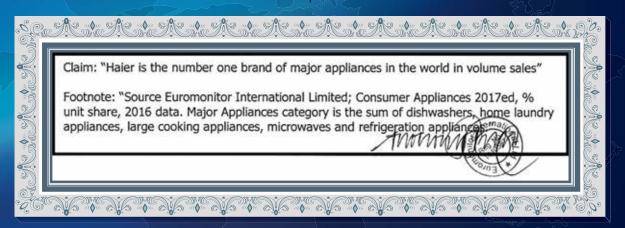
Haier Global Network

From introduction to absorption, from manufacture to creation, Haier has been accomplishing 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.



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

Project covers an area of $87,000 \, \text{m}^2$, whose building area is $51,000 \, \text{m}^2$

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

Equiped with $8 \, \text{final assembly}$ lines and $4 \, \text{modular areas}$

Maxium production & testing capability of 4500 tons

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

Haier

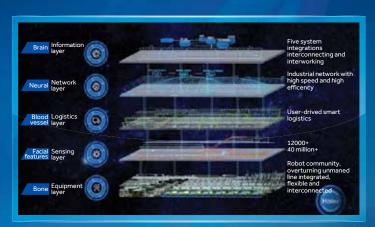
Redefining manufacturer's standards, bring forth new ideas and lead industry to upgrade

The first large-scale customization interconnected factory



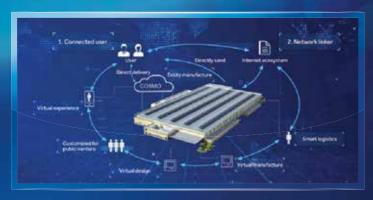
Haier's interconnected factory was born to meet the personalized needs of users. Through the front end of the interconnected factory to collect the fragmentated demand of users, and flexible production is realized through smart manufacturing, which can solve the natural contradiction between mass production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

Haier

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

2011

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

2009

The first Haier magnetic bearing centrifugal water source heat pump

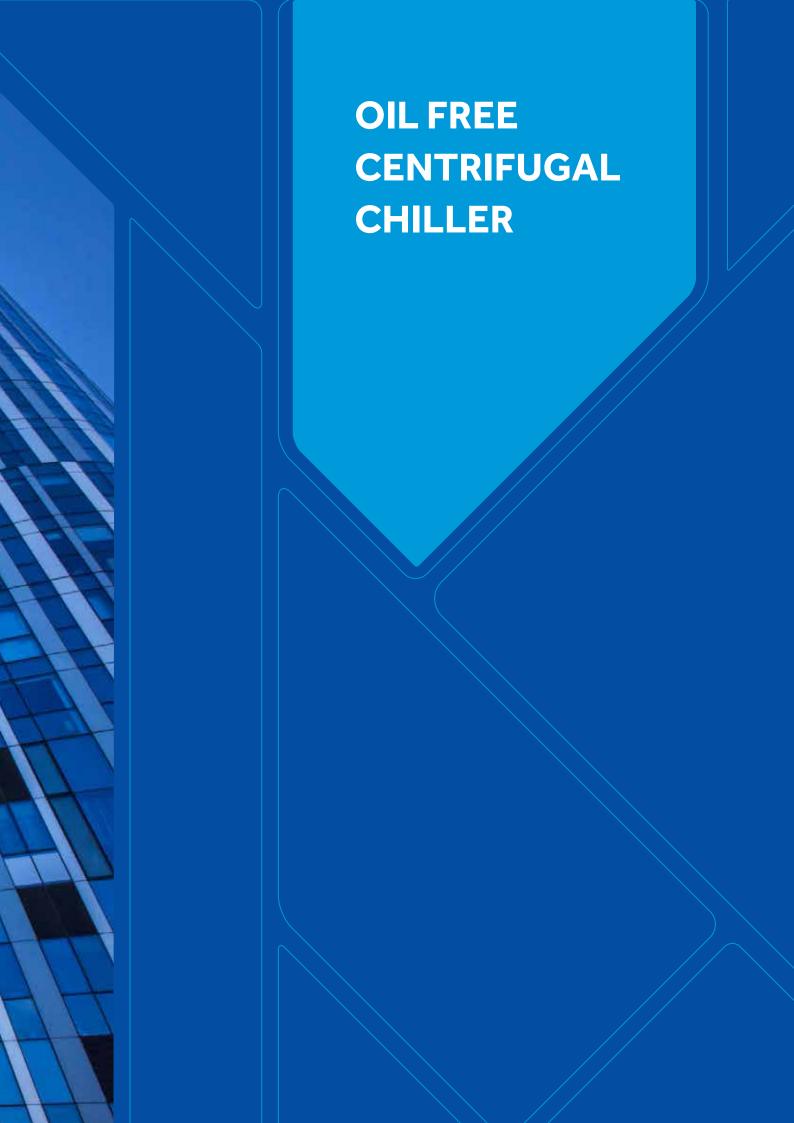
2006

The first true-meaning high temperature Magnetic Bearing Centrifugal Chiller

2003

The first magnetic bearing compressor was born in the world





Magnetic Bearing Centrifugal Chiller

Low Cost



Low maintenance cost

The unit adopts no oil in the chiller, so no oil contamination over time, and design efficiency is maintained effortlessly. This is a contamination of the chiller of the chiller of the chiller of the children of the childesign can save maintenance costs during the life cycle, as there is no need to clean oil filters or remove oil deposits .



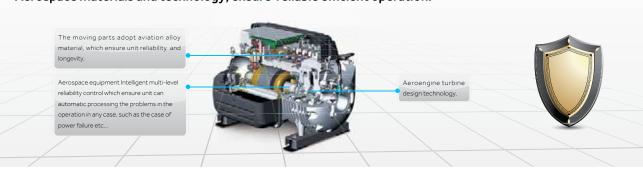
High Reliability



Longevity

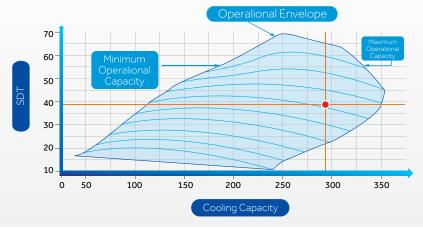
Compressor is made from the aerial class aluminum mold and the high strength thermal plastic electronic case, which can keep the compressor long-time and high efficient running.

Aerospace materials and technology, ensure 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

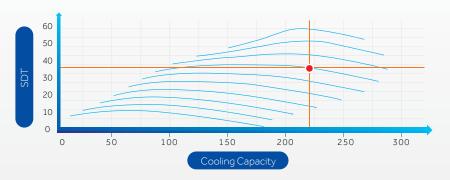
Because of fully frictionless operation, the device vibration is close to zero. So Haier magnetic bearing centrifugal chiller doesn't need the anti-vibration parts and water-cooled chiller's running noise is lower than 75 dB(A), while the conventional chiller is higher than 85dB(A).





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 5%-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







Magnetic Bearing Centrifugal Chiller

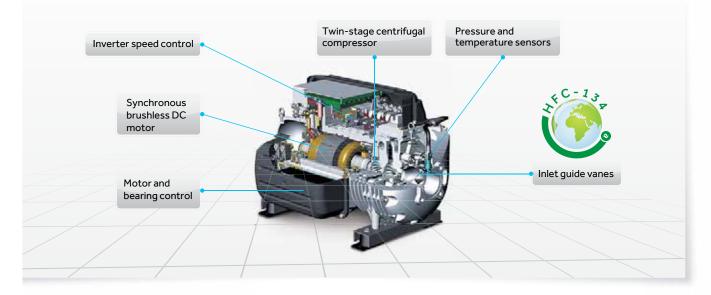
Advanced Technology



Compressor technology

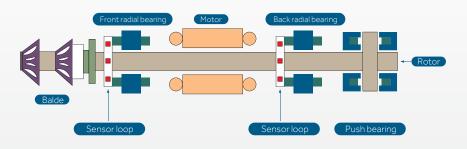
Turbocor compressor technology

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

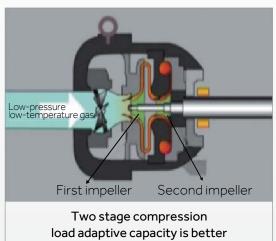


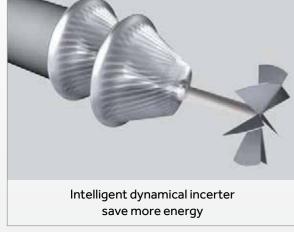
Compressor Technology

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.

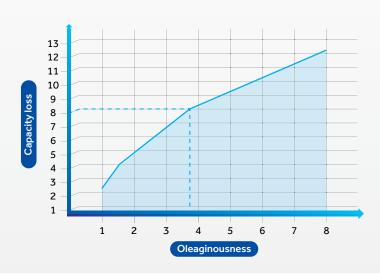




Frictionless system

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%. Haier's magnetic $bearing\ system\ inverter\ centrifugal\ chiller\ can\ enhance\ efficiency\ over\ 15\%\ because\ of\ oil-free\ lubrication\ system.$



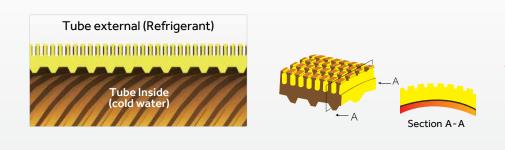
Magnetic Bearing Centrifugal Chiller

Advanced Technology



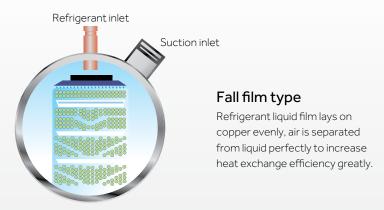
High efficiency heat exchanger

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.



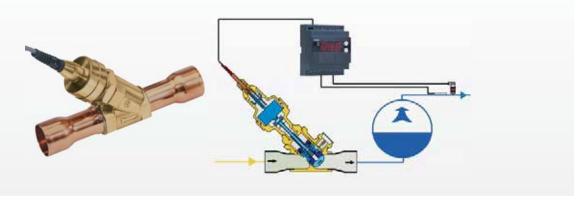
The modular water-cooled magnetic bearing centrifugal chillers adopt falling film evaporator to reduce the refrigerant charge by 40% and increase the heat exchange efficiency by 10%.

Cold Tube





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.

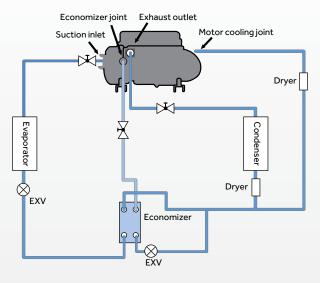


Advanced Technology



Economizer

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





Intelligent control

Cloud services center

Haier 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 Haier 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 alarm information to the cloud services system or mobile terminals with relevant authorities, notify the administrative staff of the air-conditioned 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.



Air Cooled Magnetic Bearing Centrifugal Chiller



Options / Accessories

Accessories	Standard	Optional
Power supply	3/400V/50Hz	-
Cloud service	Yes	1
Communication protocol	Modbus	BACnet
EMC/EMT filter	Yes	-
Active power filter	Option extra	Yes
Water inlet/outlet connection type	Victaulic	Flange
"Epoxy" coating thickness of fin	0.11mm	0.15mm
Water side working pressure	1.0Mpa	1.6Mpa
Fan	AC fan	EC fan
Chilled water flow meter	X	Optional
Thermal insulation thickness	20mm	25mm/40mm

Specification

Model			CC0350PABI	CC0440PABI	CC0700PABI	CC0790PABI	CC0880PABI
Combination			А	В	2*A	A+B	2*B
Cooling capa	city	kW	350	440	700	790	880
Total Power in	nput	KW	102	125	203	226	246.5
СОР		KW/kW	3.43	3.52	3.45	3.5	3.57
Starting curre	ent(Compressor)	А	2	2	2	2	2
Max. Running	current	А	250	280	500	530	560
Max. Power ir	nput	KW	148	166	296	314	332
Power supply					3~/400V/50Hz		
Refrigerant th	nrottle type			Electr	onic expansior	n valve	
Capacity con	trol				10%~100%		
Safety protec	etion			ti-freezing prof		ection, low wate tor overload pro	
Compressor	Туре			Magnet	ic bearing com	pressor	
Compressor	Quantity		1	1	2	2	2
Refrigerant	Туре		R134a				
Nemgerant	Charge	kg	220	255	440	475	510
A	Туре		High	efficiency copp	oer tube+Hydro	philic aluminiu	m foil
Air side heat exchanger	Fan type			Axia	al fan with low n	oise	
	Fan quantity		6 8 12 14 16				16
	Туре				Flooded type		
Water side heat	Rated water flow	m³/h	60	76	120	136	151
exchanger	Inlet/outlet pipe	DN	150	150	150	150	150
	Water dirt coefficient	m².°C/kW			0.0172		
Standard pre	ssure	MPa			1		
Water side re	sistance	kPa	85	88	86	89	90
	Unit length	mm	4060	5260	7690	8890	10090
External dimension	Unit width	mm	2200	2200	2200	2200	2200
	Unit height	mm	2700	2700	2700	2700	2700
	Net weight	kg	3400	3985	6840	7425	8010
Weight	Gross weight	kg	3450	4050	6940	7540	8140
	Operation weight	kg	3500	4230	7080	7810	8540

Note

- 1. Above parameters are based on the standard products;
- $2. Above \ products \ standard \ pressure \ is \ 1.0 \ Mpa, if \ pressure \ higher \ than \ 1.0 Mpa, should \ contact \ with \ Haier \ technology \ engineer;$
- 3. Operating ambient temperature range :15~43°C
- 4. Except CC0350PANI/CC0440PANI model, all others are a combination of A/B and separately transported/fitted on site.
- $\dot{\text{5}}$. Due to our policy of innovation some specifications maybe changed without notification;

Air Cooled Magnetic Bearing Centrifugal Chiller

Model			CC1050PABI	CC1140PABI	CC1230PABI	CC1320PABI
Combination	ı		3*A	2*A+B	A+2*B	3*B
Cooling capa	city	kW	1050	1140	1230	1320
Total Power in	nput	KW	303	325.5	348.5	364.6
СОР		KW/kW	3.47	3.5	3.53	3.62
Starting curre	ent(Compressor)	А	2	2	2	2
Max. Running	g current	А	750	780	810	840
Max. Power ir	nput	KW	444	462	480	498
Power supply	,			3~/400	V/50Hz	
Refrigerant tl	nrottle type			Electronic ex	pansion valve	
Capacity con	trol			10%~	100%	
Safety protec	ction			load protection, sa reezing protection, on		
Compressor	Туре			Magnetic beari	ng compressor	
Compressor	Quantity		3	3	3	3
Refrigerant	Туре		R134a			
Remgerant	Charge	kg	660	695	730	765
	Туре		High effic	ciency copper tube	e+Hydrophilic alum	inium foil
Air side heat exchanger	Fan type		Axial fan with low noise			
	Fan quantity		18 20 22 24			
	Туре			Floode	ed type	
Water side heat	Rated water flow	m³/h	181	196	212	227
exchanger	Inlet/outlet pipe	DN	250	250	250	250
	Water dirt coefficient	m².°C/kW		0.0	172	
Standard pre	ssure	MPa			1	
Water side re	sistance	kPa	40	42	43	45
	Unit length	mm	11320	12520	13720	14920
External dimension	Unit width	mm	2200	2200	2200	2200
	Unit height	mm	2700	2700	2700	2700
	Net weight	kg	10280	10865	11450	12035
Weight	Gross weight	kg	10430	11030	11630	12230
	Operation weight	kg	10660	11390	12120	12850

Note

- 1. Above parameters are based on the standard products;
- 2. Above products standard pressure is 1.0 Mpa,if pressure higher than 1.0 Mpa,should contact with Haier technology engineer;
- 3. Operating ambient temperature range :15~43°C
- 4. Except CC0350PANI/CC0440PANI model, all others are a combination of A/B and separately transported/fitted on site.
- 5. Due to our policy of innovation some specifications maybe changed without notification;

Specification

Model			CC1400PABI	CC1490PABI	CC1580PABI	CC1670PABI	CC1760PABI
Combination			4A	3*A+B	2*A+2*B	A+3*B	4B
Cooling capa	city	kW	1400	1490	1580	1670	1760
Total Power in	nput	KW	400	423.8	445	462.6	482.2
СОР		KW/kW	3.5	3.52	3.55	3.61	3.65
Starting curre	ent(Compressor)	А	2	2	2	2	2
Max. Running	gcurrent	А	1000	1030	1060	1090	1120
Max. Power ir	nput	KW	592	610	628	646	664
Power supply	,				3~/400V/50Hz		
Refrigerant tl	nrottle type			Electr	onic expansior	n valve	
Capacity con	trol				10%~100%		
Safety protec	ction		'	overload protec ti-freezing prof ection			
Cananaaaaa	Туре			Magnet	ic bearing com	pressor	
Compressor	Quantity		4	4	4	4	4
Refrigerant	Туре		R134a				
Nemgerant	Charge	kg	880	915	950	985	1020
	Туре		High	efficiency copp	oer tube+Hydro	philic aluminiu	m foil
Air side heat exchanger	Fan type		Axial fan with low noise				
	Fan quantity						32
	Туре				Flooded type		
Water side heat	Rated water flow	m³/h	241	256	272	287	303
exchanger	Inlet/outlet pipe	DN	250	250	250	250	250
	Water dirt coefficient	m².°C/kW			0.0172		
Standard pre	ssure	MPa			1		
Water side re	sistance	kPa	75	78	80	86	90
	Unit length	mm	14950	16150	17350	18550	19750
External dimension	Unit width	mm	2200	2200	2200	2200	2200
	Unit height	mm	2700	2700	2700	2700	2700
	Net weight	kg	13800	14385	14970	15555	16140
Weight	Gross weight	kg	14000	14600	15200	15800	16400
	Operation weight	kg	14300	15030	15760	16490	17220

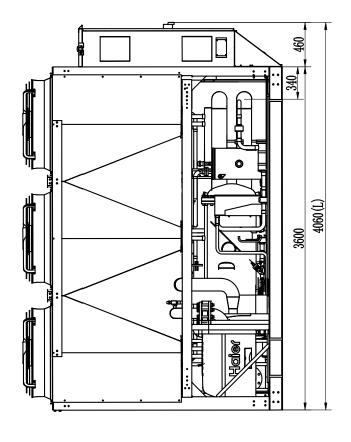
Note

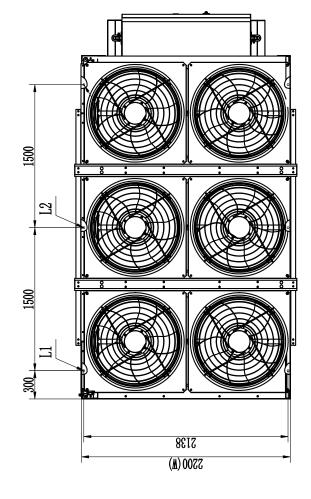
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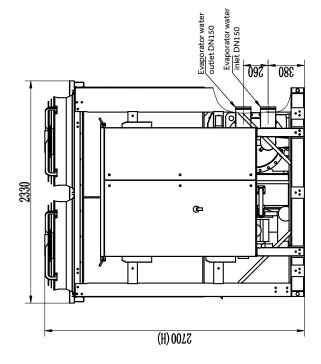
Air Cooled Magnetic Bearing Centrifugal Chiller

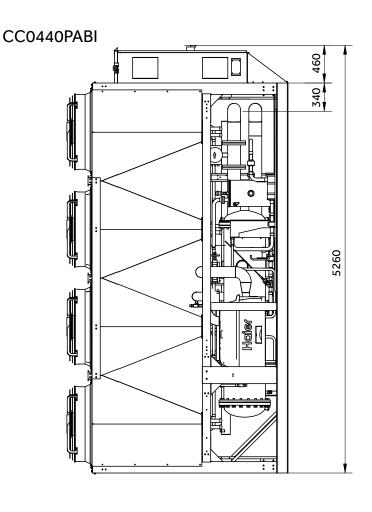
Unit Dimension Diagram

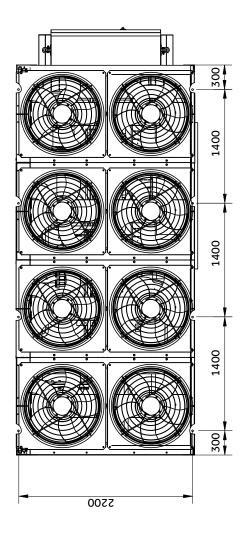
CC0350PABI

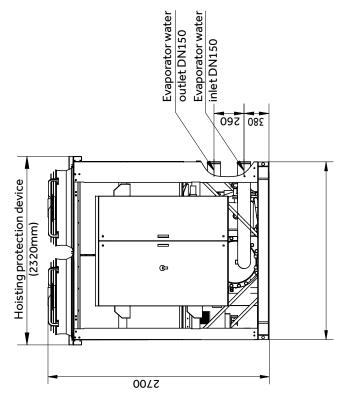




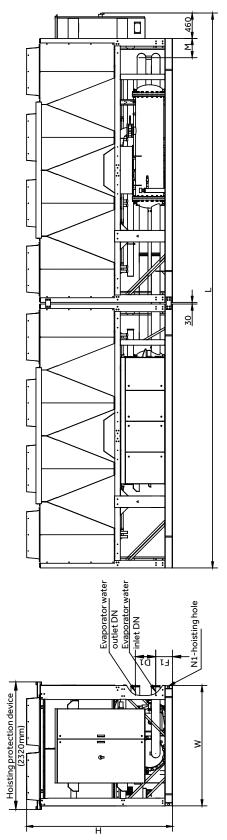


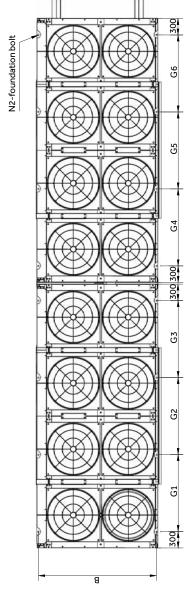




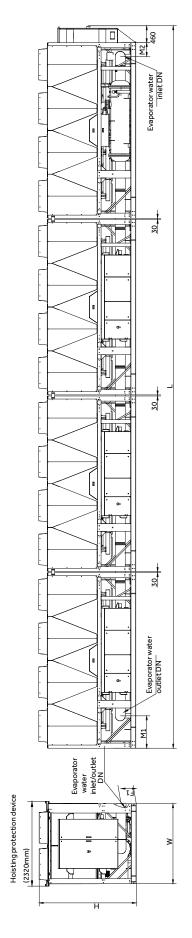


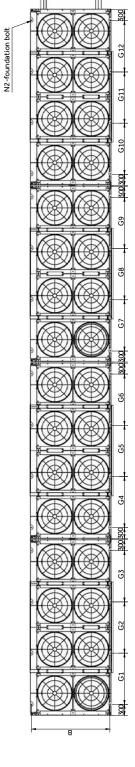
Air Cooled Magnetic Bearing Centrifugal Chiller





Model	į	Dimension mm	m m		Inst	allation	dimens	Installation dimension mm	_		Pipe cor	Pipe connection dimension mm	dimensi	mm no	Hoisting hole number	Foundation bolt number
	_	>	I	В	G1	G2	G3	G1 G2 G3 G4 G5	G5	99	D1	F1	Σ	NO	N1	N2
CC0700PANI	0692	7690 2200 2700 2138	2700	2138	1500	1500		1500	1500		260	380	340	340 DN150	8	12
CC0790PANI	8890	8890 2200 2700 2138	2700	2138	1500	1500	//	1400	1400 1400 1400	1400	260	380	340	DN150	8	14
CC0880PANI 10090 2200 2700 2138	10090	2200	2700	2138	1400	1400	1400	.400 1400 1400 1400 1400	1400	1400	260	380	340	340 DN150	8	16





Model	Dim	Dimension mm	ш					lus	Installation dimension mm	n dime	nsion r	E E					Pipe co	nnectio	n dimen	Pipe connection dimension mm	Hoisting hole number	Foundation bolt number
	_	8	I	В	G1	G 2	63	G4	G5	99	C 2	85	69	G10	G11	G12	F1	M1	M2	DNe	N1	N2
CC1050PANI 11320 2200	11320		2700	2138	1500	1500		1500	1500		1500	1500	/	/			510	455	400	DN250	12	18
CC1140PANI 12520 2200 2700	12520	2200	1	2138	1500	1500	7	1500	1500	/	1400	1400	1400	7	7	7	510	455	400	DN250	12	20
CC1230PANI 13720 2200 2700	13720	2200		2138	1500	1500	$\overline{/}$	1400	1400	1400	1400	1400	1400	$\overline{/}$	$\overline{/}$		510	455	400	DN250	12	22
CC1320PANI 14920 2200	14920	2200	2700	2138	1400	1400	1400	1400	1400	1400	1400	1400	1400	7	7	/	510	455	400	DN250	12	24
CC1400PANI 14950 2200 2700	14950	2200		2138	1500	1500	/	1500	1500	/	1500	1500	7	1500	1500		510	455	400	DN250	16	24
CC1490PANI 16150 2200 2700	16150	2200		2138	1500	1500	/	1500	1500		1500	1500		1400	1400	1400	510	455	400	DN250	16	26
CC1580PANI 17350 2200	17350	2200	2700	2138	1500	1500	/	1500	1500	/	1400	1400	1400	1400	1400	1400	510	455	400	DN250	16	28
CC1670PANI 18550 2200 2700	18550	2200		2138	1500	1500		1400	1400 1400		1400	1400 1400 1400 1400	1400	1400	1400	1400	510	455	400	DN250	16	30
CC1760PANI 19750 2200 2700	19750	2200		2138	1400	1400	1400	1400	1400	1400	1400	1400 1400 1400 1400 1400 1400 1400 1400	1400	1400	1400	1400	510	455	400	DN250	16	32

Water Cooled Magnetic Bearing Centrifugal Chiller

Water cooled/Cooling only
Cooling capacity range from 440kW up to 7034kW

















* Picture is based on single compressor model

Options / Accessories

Accessories		Standard	Optional
Power supply		3/400V/50Hz	-
Cloud service		Yes	-
Communication protocol		Modbus	BACnet
EMC/EMT filter		Yes	-
Active power filter		Option extra	Yes
Water inlet/outlet connection type		Victaulic	Flange
"Epoxy" coating thickness of fin		0.11mm	0.15mm
Water side working pressure		1.0Mpa	1.6Mpa
Fan		AC fan	EC fan
Chilled water flow meter		X	Optional
Thermal insulation thickness		20mm	25mm/40mm
Channel steel base			
Defrice vetice evels eveters	≤800RT	Modular refrigeration cycle system	In-corporative refrigeration cycle system
Refrigeration cycle system	>800RT	In-corporative refrigeration cycle system	/

Specification

Model			CC0440PWBI	CC0530PWBI	CC0880PWBI	CC1100PWBI
		Ton	125	150	250	303
Cooling capa	city	kW	440	528	879	1066
		kW	74.7	87.9	146.5	174.7
Power input		kW/kW	5.89	6.01	6.00	6.10
COP		kW/Ton	0.598	0.586	0.586	0.576
Starting curre	ent	А	2	2	2	2
Max. running		А	176	188	352	376
Max. power ir		kW	108	115	215	230
Safe protecti	on		,	•	, motor overload, ase protection	•
Compressor	Туре			Magnetic beari	ng compressor	
Compressor	Starting mode			Soft	start	
Power supply	,			3~400),50Hz	
Refrigerant th	nrottle type			Electronic exp	oansion valves	
Capacity con	trol			5%-1	100%	
Controller typ	oe .			PLC c	ontrol	
Refrigerant	Туре			R1:	34a	
Remgerant	Charge	kg	200	210	400	420
	Туре			Floode	ed type	
	Chilled water inlet/			12°C	:/7 °C	
	outlet temp. Inlet/outlet pipe	DN	150	150	200	200
	Rated water flow	DN 150 150 200 200 m3/h 76 91 151 183 m2 °C/kW 0.0176				
Evaporator	Water dirt coefficient		°C/kW 0.0176			
	Standard pressure	MPa	°C/kW 0.0176 MPa 1			
	Pass					
	Water side resistance	kPa	4 4 2 2			
	Туре				eat exchanger	
	Cooling water inlet/				/35 °C	
	outlet temp.	DN	150	150		200
	Inlet/outlet pipe Rated water flow		150 89		200	
Condenser	Water dirt coefficient	m3/h	69	106	176	213
	Standard pressure	m2°C/kW MPa)44	
	'	IMPd	1		2	2
	Pass	I.D.	77	4		2
	Water side resistance	kPa	77	75	72	72
External	Unit length	mm	2500	2500	4400	4400
dimension	Unit width	mm	1200	1200	1200	1200
	Unit height	mm	2100	2100	2100	2100
\\/ - : = -	Net weight	Kg	2370	2480	3910	4190
Weight	Gross weight	Kg	2410	2520	3960	4240
Note:	Operation weight	Kg	2670	2830	4410	4740

- $Above\ products\ standard\ pressure\ is\ 1.0 Mpa\ -\ Contact\ with\ haier\ technology\ engineer, if\ you\ need\ the\ pressure\ higher\ than\ 1.0 Mpa.$
- Note:

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 3. Except above standard models, haier also can be custom
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 6. CC1330PWNI,CC1400PWNI,CC1580PWNI can be custo Except above standard models, haier also can be customized products according to customer's requirements;
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Water Cooled Magnetic Bearing Centrifugal Chiller

Model			CC1330PWBI	CC1400PWBI	CC1580PWBI	CC1760PWBI
0 1		Ton	378	400	450	500
Cooling capa	city	kW	1329	1407	1583	1759
		kW	217.6	230.7	259.5	287.9
Power input		kW/kW	6.11	6.10	6.10	6.11
COP		kW/Ton	0.576	0.577	0.577	0.576
Starting curre	ent	А	2	2	2	2
Max. running	current	А	528	528	564	704
Max. power in	nput	kW	323	323	345	431
Safe protecti	on				n, motor overload, ase protection	
Compressor	Туре			Magnetic beari	ng compressor	
Compressor	Starting mode			Soft	start	
Power supply				3~400),50Hz	
Refrigerant th	nrottle type			Electronic exp	oansion valves	
Capacity con	trol			5%-1	100%	
Controller typ	pe			PLC c	ontrol	
Refrigerant	Туре			R13	34a	
Nemgerani	Charge	kg	600	630	630	800
	Туре			Floode	ed type	
	Chilled water inlet/			12°C	/7°C	
	outlet temp. Inlet/outlet pipe	DN	250	250	250	250
	Rated water flow	m3/h	m3/h 229 242 272 303			
Evaporator	Water dirt coefficient	m2°C/kW	0.0176			
	Standard pressure	MPa				
	Pass					
	Water side resistance	kPa	1 1 1 2			
	Туре			Shell&tube he	eat exchanger	_
	Cooling water inlet/				/35°C	
	outlet temp. Inlet/outlet pipe	DN	250	250	250	250
	Rated water flow	m3/h	266	282	317	352
Condenser	Water dirt coefficient	m2°C/kW	200)44	332
	Standard pressure	MPa			1	
	Pass		1	1	1	2
	Water side resistance	kPa	33	33	33	72
	Unit length	mm	6520	6520	6520	4800
External	Unit width	mm	1200	1200	1200	2250
dimension	Unit height	mm	2100	2100	2100	2250
	Net weight	Kg	5130	5680	6260	8200
Weight	Gross weight	Kg	5200	5750	6330	8280
1 2 3	Operation weight	Kg	5880	6480	7060	9200
	Operation weight	1.9	3000	0400	7000	3200

Note:

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Specification

Model			CC1930PWBI	CC2110PWBI	CC2640PWBI	CC2810PWBI
		Ton	550	600	750	800
Cooling capa	ncity	kW	1934	2110	2637	2814
		kW	316.5	344.2	430.1	457.6
Power input		kW/kW	6.11	6.13	6.13	6.15
COP		kW/Ton	0.576	0.574	0.573	0.572
Starting curre	ent	A	2	2	2	2
Max. running		A	720	752	900	940
Max. power ir		kW	441	460	551	575
Safe protecti	ion			freezed protection and lack of ph	ety protection, sho n, motor overload, ase protection	
Compressor	Туре			Magnetic beari	ng compressor	
Compressor	Starting mode			Soft	start	
Power supply	/			3~400),50Hz	
Refrigerant t	hrottle type			Electronic exp	oansion valves	
Capacity con	itrol			5%-1	100%	
Controller ty	ре			PLC c	ontrol	
Refrigerant	Туре			R1.	34a	
Remgerant	Charge	kg	820	840	1050	1100
	Туре			Floode	ed type	
	Chilled water inlet/			12°C	:/7°C	
	outlet temp. Inlet/outlet pipe	DN	250	250	300	300
	Rated water flow	m3/h	3/h 333 363 454 484			
Evaporator	Water dirt coefficient	m2°C/kW	C/kW 0.0176			
	Standard pressure	MPa	C/kW 0.0176			
	Pass					
	Water side resistance	kPa	2 2 2 2			
	Type	141 4	7.5	_	eat exchanger	33
	Cooling water inlet/				/35°C	
	outlet temp.	511	0.50	I		700
	Inlet/outlet pipe	DN	250	250	300	300
Condenser	Rated water flow	m3/h	387	422	528	563
	Water dirt coefficient	m2°C/kW)44	
	Standard pressure	MPa			1	
	Pass		2	2	2	2
	Water side resistance	kPa	72	68	99	95
External	Unit length	mm	4800	4800	6750	6750
dimension	Unit width	mm	2250	2250	2250	2250
	Unit height	mm	2250	2250	2250	2250
	Net weight	Kg	8300	8350	11150	11350
Weight	Gross weight	Kg	8380	8430	11300	11500
	Operation weight	Kg	9400	9450	12350	12650

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Water Cooled Magnetic Bearing Centrifugal Chiller

Model			CC3170PWBI	CC3520PWBI	CC3870PWBI	CC4220PWBI	
Q 1		Ton	900	1000	1100	1200	
Cooling capa	city	kW	3165	3517	3869	4220	
		kW	518.0	571.9	631.1	689.5	
Power input		kW/kW	6.11	6.15	6.13	6.12	
COP		kW/Ton	0.576	0.572	0.574	0.575	
Starting curre	ent	А	2	2	2	2	
Max. running	current	А	1080	1125	1260	1440	
Max. power in	nput	kW	661	689	771	881	
Safe protection	on		,	· · · · · · · · · · · · · · · · · · ·	n, motor overload, ase protection	•	
Compressor	Туре				ng compressor		
Compressor	Starting mode				start		
Power supply				3~400),50Hz		
Refrigerant th	nrottle type			Electronic exp	oansion valves		
Capacity con	trol			5%-1	100%		
Controller typ	oe			PLC c	ontrol		
Refrigerant	Туре			R1:	34a		
Theirigerant	Charge	kg	1200	1250	1400	1600	
	Туре			Floode	ed type		
	Chilled water inlet/ outlet temp.			12°C	/7°C		
	Inlet/outlet pipe	DN	350	350	350	350	
Evaporator	Rated water flow	m3/h	/h 544 605 665 726				
Evaporator	Water dirt coefficient	m2°C/kW	0.0176				
	Standard pressure	MPa	Pa 1				
	Pass						
	Water side resistance	kPa	2 2 2 2				
	Туре			Shell&tube he	eat exchanger		
	Cooling water inlet/ outlet temp.			30°C	/35°C		
	Inlet/outlet pipe	DN	350	350	350	350	
C	Rated water flow	m3/h	633	703	774	844	
Condenser	Water dirt coefficient	m2°C/kW)44		
	Standard pressure	MPa			1		
	Pass		2	2	2	2	
	Water side resistance	kPa	58	65	96	87	
	Unit length	mm	4300	5100	5100	5100	
External	Unit width	mm	3200	3200	3200	3200	
dimension	Unit height	mm	2550	2550	2550	2550	
	Net weight	Kg	11950	13500	14550	15350	
Weight	Gross weight	Kg	12100	13650	14700	15500	
		+					

Note:

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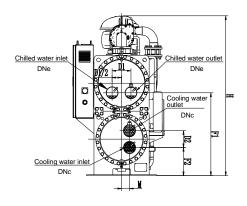
Specification

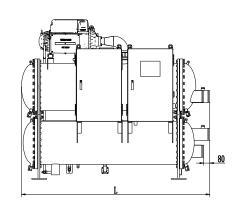
Model			CC5280PWBI	CC6330PWBI
0 1:		Ton	1500	1800
Cooling capa	city	kW	5275	6330.6
		kW	858	1029.4
Power input COP		kW/kW	6.15	6.15
COP		kW/Ton	0.572	0.572
Starting curre	ent	А	2	2
Max. running	current	А	1800	2025
Max. power ir		kW	1102	1239
Safe protecti	on		High/low pressure protection, safe protection, anti-freezed protection and lack of pha	
Compressor	Туре		Magnetic beari	ng compressor
Compressor	Starting mode		Soft	start
Power supply	,		3~400	,50Hz
Refrigerant tl	nrottle type		Electronic exp	pansion valves
Capacity con	trol		5%-1	100%
Controller typ	pe		PLC co	ontrol
D-6:	Туре		R13	34a
Refrigerant	Charge	kg	1900	2400
	Туре		Floode	ed type
	Chilled water inlet/		12°C	/7°C
	outlet temp. Inlet/outlet pipe	DN	400	450
	Rated water flow	m3/h	907	1089
Evaporator	Water dirt coefficient	m2°C/kW	0.00	
	Standard pressure	MPa	1	170
	Pass	7 11 0	2	2
	Water side resistance	kPa	95	93
	Type	IXI G	Shell&tube he	
	Cooling water inlet/		30°C	
	outlet temp.			
	Inlet/outlet pipe	DN	400	450
Condenser	Rated water flow	m3/h	1055	1266
	Water dirt coefficient	m2°C/kW	0.0	
	Standard pressure	MPa	1	
	Pass		2	2
	Water side resistance	kPa	96	96
External	Unit length	mm	6600	7700
dimension	Unit width	mm	3200	3500
	Unit height	mm	2550	2500
	Net weight	Kg	19110	25310
Weight	Gross weight	Kg	19260	25460
	Operation weight	Kg	22610	29810

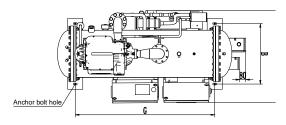
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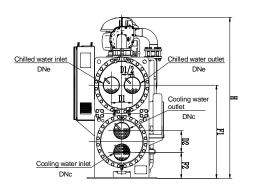
Water Cooled Magnetic Bearing Centrifugal Chiller

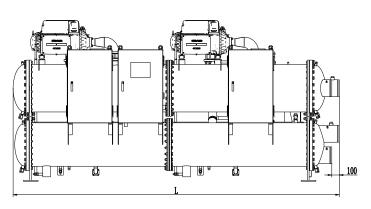


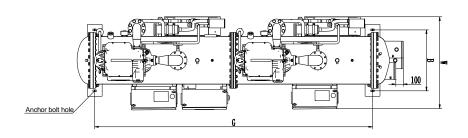




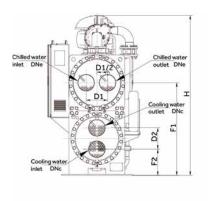
CODE	Externa	ıl dimensi	ons mm		lation ions mm			Noz	Nozzle dimensions mm					
MODEL	L	W	Н	В	G	D1	D2	F1	F2	М	DNe	DNc		
CC0440PWNI	2500	1200	2100	790	1846	250	220	1082	367	105	DN150	DN150		
CC0530PWNI	2500	1200	2100	790	1846	346 250 220 1082 367 105 DN150 D						DN150		

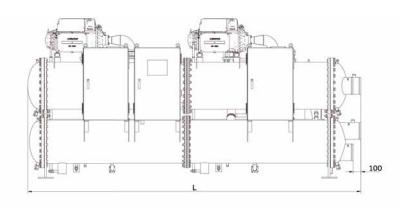


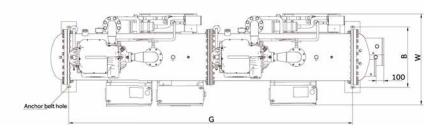




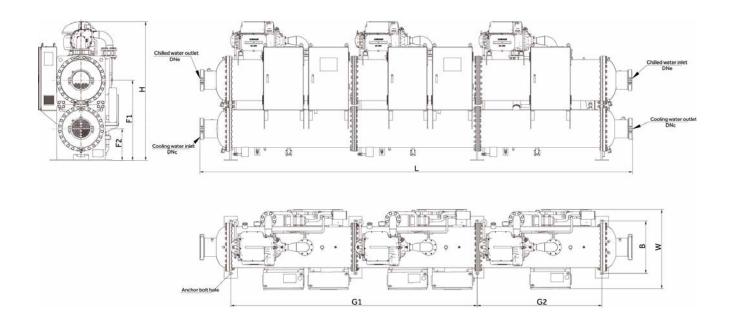
CODE	Extern	al dimens	ions mm	Install dimensi		Nozzle dimensions mm							
MODEL	L	W	Н	В	G	D1	D2	F1	F2	DNe	DNc		
CC0740PWNI	2800	1200	2100	790	2146	146 250 240 1207 375 DN150					DN150		





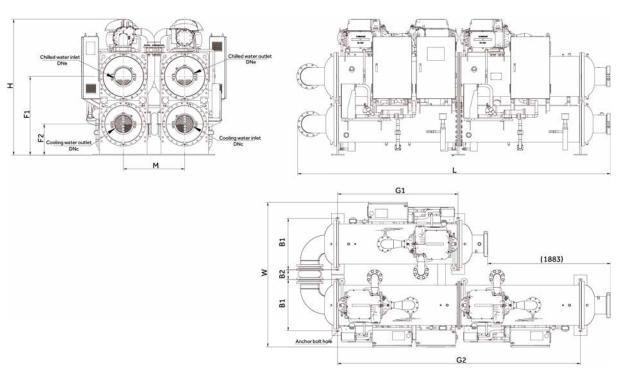


CODE	External dimensions mm			Instal dimensi	lation ons mm	Nozzle dimensions mm							
MODEL	L	W	Н	В	G	D1	D2	F1	F2	DNe	DNc		
CC0880PWNI	4400	1200	2100	790	3719	280	280	1207	337	DN200	DN200		
CC1100PWNI	CC1100PWNI 4400 1200 2100				3719	280	280	1207	337	DN200	DN200		

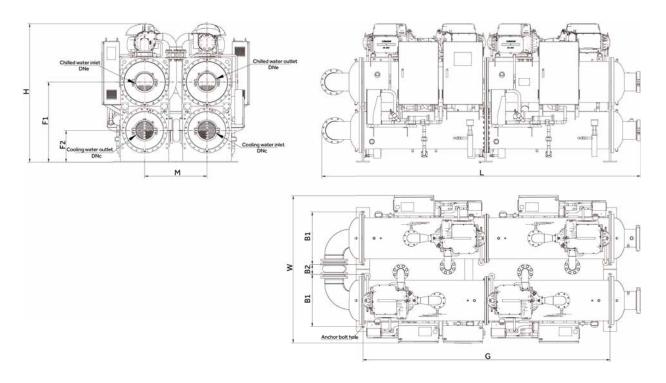


CODE	Externa	l dimensi	ons mm		nstallatio nensions		Nozzle dimensions mm					
MODEL	L	W	Н	В	G1	G2	F1	DNe	DNc			
CC1330PWNI	6520	1200	2100	790	3719	1846	1207	477	940	DN250	DN250	
CC1400PWNI	CC1400PWNI 6520 1200 2100		2100	790	3719	1846	1207	477	940	DN250	DN250	
CC1580PWNI	C1580PWNI 6520 1200 2100			790	3719	1846	1207	477	940	DN250	DN250	

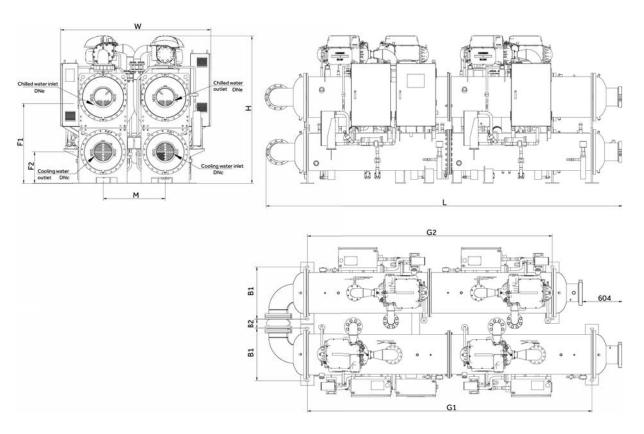
Water Cooled Magnetic Bearing Centrifugal Chiller



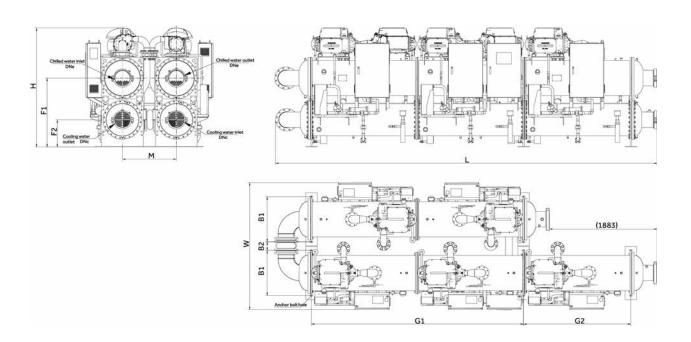
CODE	Externa	l dimensi	ons mm	Inst	allation di	mensions	mm	Nozzle dimensions mm					
MODEL	L	W	Н	B1	B2	G1	G2	F1	F2	М	DNe	DNc	
CC1330PWNI	4800	2250	2250	790	150	1846	3719	1307	477	940	DN250	DN250	
CC1400PWNI	4800	2250	2250	790	150	1846	3719	1307	477	940	DN250	DN250	
CC1580PWNI	4800	2250	2250	790	150	1846	3719	1307	477	940	DN250	DN250	



CODE	Externa	al dimensi	ons mm	Install	lation dim	ensions r	nm	Nozzle dimensions mm					
MODEL	L	W	Η	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		

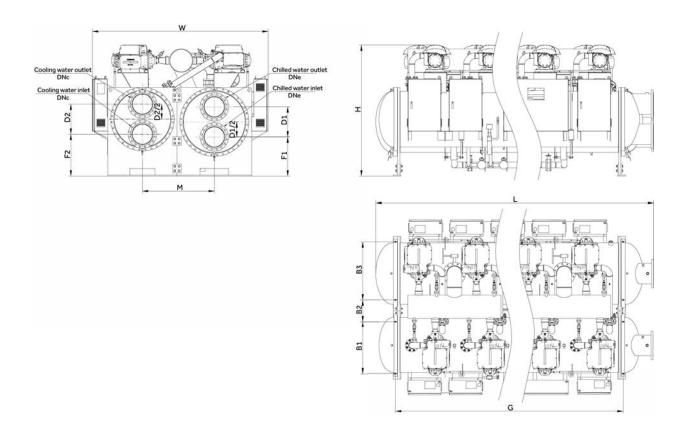


COD	E Extern	al dimensi	ons mm	lr	stallation	dimensi	ons mm	Nozzle dimensions mm					
MODEL	L	W	Н	B1	B2	G1	G2	F1	F2	М	DNe	DNc	
CC2460PWN	5440	2280	2250	790	150	4319	3719					DN250	



CODE	Externa	l dimensi	ons mm	Insta	llation din	nensions	mm	Nozzle dimensions mm					
MODEL	L	W	Η	B1	B2	G1	G2	F1	F2	M	DNe	DNc	
CC2640PWNI	6750	2250	2250	790	150	3719	1846	1307	477	940	DN300	DN300	
CC2810PWNI	6750	2250	2250	790	150	3719	1846	1307	477	940	DN300	DN300	

Water Cooled Magnetic Bearing Centrifugal Chiller



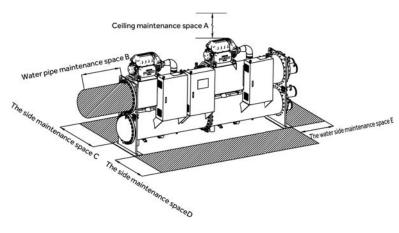
CODE	Externa	al dimensi	ons mm		Installation dimensions mm						Nozzle dimensions mm						
MODEL	L	W	Н	B1	B2	B3	G1	G2	G3	D1	D2	F1	F2	М	DNe	DNc	
CC3170PWNI	4300	3200	2550	960	400	1060	3348			550	550	715	765	1310	DN350	DN350	
CC3520PWNI	4300	3200	2550	960	400	1060	3348			550	550	715	765	1310	DN350	DN350	
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	4148			550	550	715	765	1310	DN400	DN400	
CC6330PWNI	6600	3800	2700	1160	400	1160		3348	2170	620	620	730	730	1460	DN450	DN450	
CC7030PWNI	6600	3800	2700	1160	400	1160		3348	2170	620	620	730	730	1460	DN450	DN450	

Unit Dimension Diagram

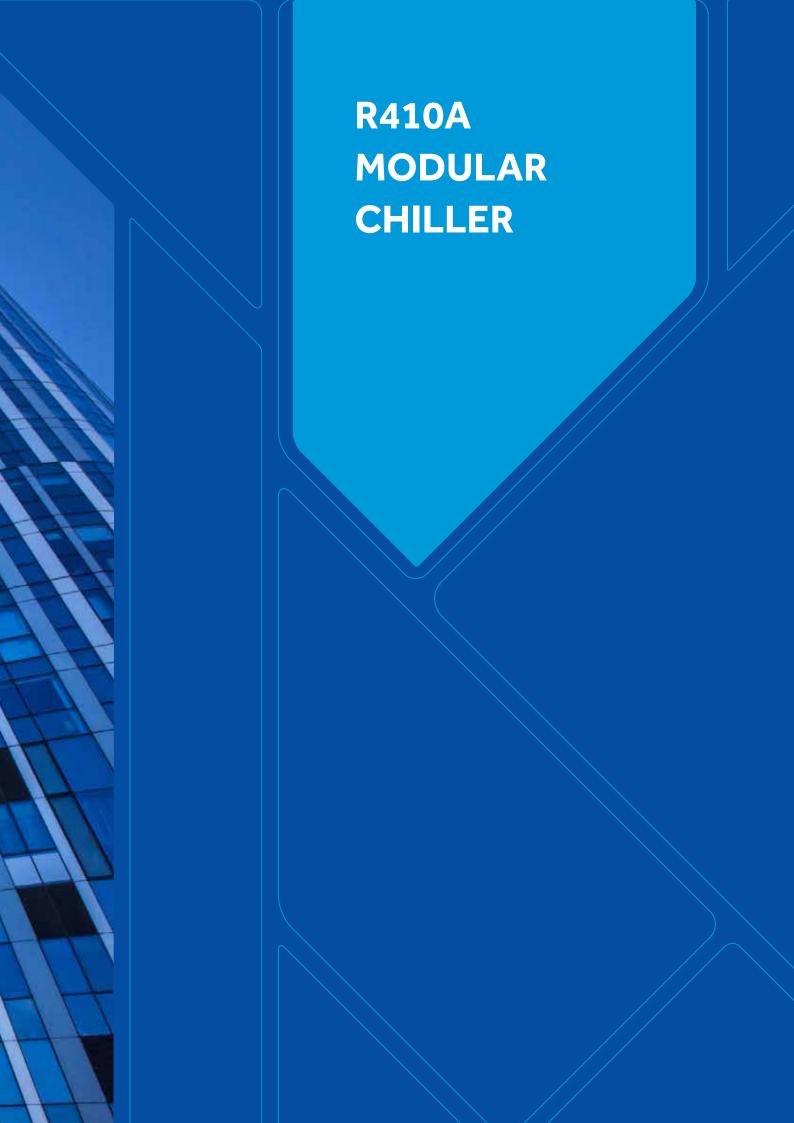
mm

Model	A	В	С	D	E
CC0440~CC0530PWNI	500	2000	1500	1500	1500
CC0740PWNI	500	2300	1500	1500	1500
CC0880~CC2110PWNI	500	2000	1500	1500	2000
CC2460PWNI	500	2300	1500	1500	2300
CC2640~CC2810PWNI	500	2000	1500	1500	2000
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







Water Cooled Magnetic Bearing Centrifugal Chiller

Air cooled/Heat pump Cooling capacity range from 30kW up to 2080kW











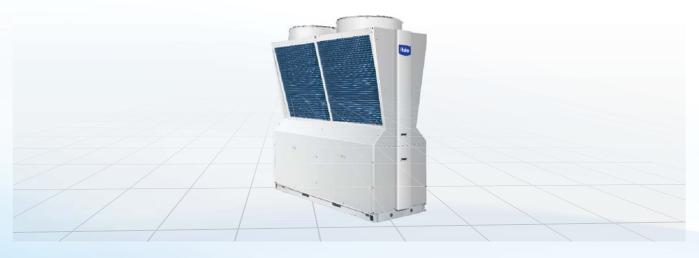


Features



New Appearance

New Y-shape design, more fashionable



Specification

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	А	15.8	34.6	53.2	75.4				
	Heating capacity	kW	33	70	103	135				
Heating	Power input	kW	9.6	19.1	28.7	38.2				
	Running current	А	16.2	34.4	52.8	75				
COPR		kW/kW	3.19	3.39	3.39	3.39				
COPH		kW/kW	3.44	3.66	3.59	3.53				
Max.Power in	put	kW	16.3	28	45.6	56				
Max. running	current	А	27.5	55	82.5	110				
Power supply				3~/380	V/50Hz					
Refrigerant th	nrottle type			Electronic ex	pansion valve					
Capacity con	trol		100%	50%,100%	33%,67%, 100%	25%,50%, 75%,100%				
Safety & func	tional protections		_	High/low Pressure Protection, Water flow delay Protection, Freeze Protection, Overload & Overheat Protection, Phase Loss, Phase Sequence Protection						
	Туре			Scroll cor	mpressor					
Compressor	Quantity		1	2	3	4				
	Input power	KW	9	18	27	36				
Defi	Туре									
Refrigerant	Charge	kg	5.5	6*2	5.8*3	5.8*4				
	Туре		(Slit fin & efficient inner grooved copper tube) Inner grooved copper pipe & hydrophilic aluminum fin coil							
Air side heat	Fan power	KW	0.7	1.5	2.3	3				
exchanger	Fan type		Axial flow fan							
	Fan quantity		1	2	3	4				
	Туре		Plate heat exchanger	Shell & Tube heat exchanger						
Water	Rated water flow	m³/h	5.6	12	17.7	24				
side heat	Inlet/outlet pipe		DN65	R 2"" (external screw thread)						
exchanger	Water dirt coefficient	m2°C/KW		0.018						
	Standard pressure	Мра	1.0	1.0	1.0	1.0				
	Water resistance	kPa	40	45	50	60				
Sound level		dB(A)	60	65	67	68				
Extornal	Unit length	mm	918	2060	2060	2060				
External dimension	Unit width	mm	1038	780	1603	1603				
GILLICI ISIOLI	Unit height	mm	1810	2170	2170	2170				
Package	Unit length	mm	1075	2200	2200	2200				
dimension	Unit width	mm	940	830	1650	1650				
	Unit height	mm	1950	2280	2280	2280				
	Unit weight	kg	270	630	960	1090				
Weight	Gross weight	kg	290	645	990	1125				
	Operation weight	kg	280	670	1010	1245				

Note:

- 1. Specifications are based on the following condition:
- Cooling: chilled water inlet/outlet: 12°C /7°C, and outdoor ambient temp. 35°C DB;
- Heating: warm water inlet/outlet: 40°C /45°C, and outdoor ambient temp. 7°C DB/6°C WB;
- Water side fouling factor: 0.086m2•°C /kW
- 1m away in open field (sound pressure)
- 2. Due to our policy of innovation, some specifications may be changed without notification.

Performance Table



R410a:CA0035EAND

Cooling capacity table

Water oulet	Ambient temperature							
temp.(°C)	25	30	35	40	45			
5	1.03	0.97	0.94	0.90	0.85			
7	1.07	1.03	1.00	0.95	0.88			
9	1.10	1.06	1.03	0.98	0.91			
11	1.12	1.10	1.08	1.02	0.97			
13	1.19	1.20	1.15	1.10	1.05			
15	1.31	1.31	1.26	1.20	1.15			

Heating capacity table

Water oulet	Ambient temperature								
temp.(°C)	15	10	7	5	0	-5	-10	-15	
30	1.23	1.15	1.11	1.06	0.87	0.80	0.71	0.6208	
35	1.13	1.10	1.08	0.83	0.74	0.68	0.58	0.57	
40	1.13	1.09	1.05	0.83	0.74	0.66	0.57	0.55	
45	1.13	1.09	1.00	0.83	0.74	0.64	0.57	0.53	
50	1.13	1.07	0.92	0.81	0.74	0.64	0.56	0.51	
55	1.12	1.06	0.92	0.81	0.72	0.62	-	-	

R410a:CA0070EAND/CA0100EAND/CA0130EAND

Cooling capacity table

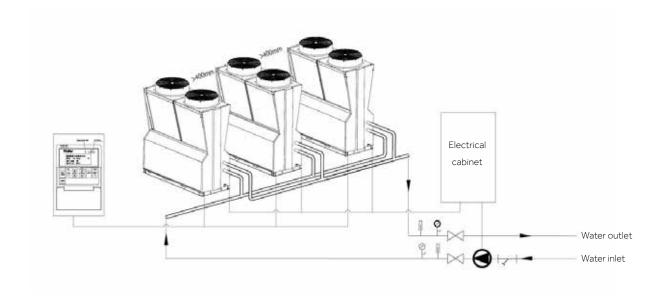
Water oulet	Ambient temperature							
temp.(°C)	25	30	35	40	45			
5	1.07	1.00	0.94	0.94	0.81			
7	1.14	1.07	1.00	0.96	0.86			
9	1.20	1.13	1.06	0.98	0.91			
11	1.27	1.19	1.12	1.04	0.96			
13	1.34	1.26	1.17	1.09	1.01			
15	1.41	1.32	1.23	1.14	1.06			

Heating capacity table

Water oulet	Ambient temperature								
temp.(°C)	15	10	7	5	0	-5	-10	-15	
30	1.26	1.16	1.12	1.07	0.88	0.82	0.72	0.69	
35	1.24	1.15	1.11	1.06	0.88	0.81	0.71	0.69	
40	1.22	1.14	1.10	1.05	0.87	0.80	0.71	0.67	
45	1.19	1.12	1.00	0.98	0.85	0.79	0.70	0.66	
50	1.19	1.11	0.98	0.97	0.84	0.78	0.67	0.65	
55	1.14	1.07	0.97	0.94	0.83	0.77	-	-	

Chiller Water System And Control Wiring Diagram

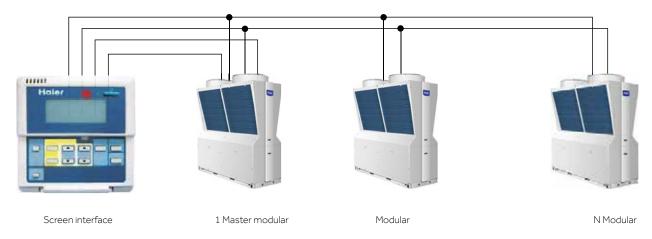
Water pipe and control wiring connection diagram for multi-modular chiller



Control Wiring Diagram

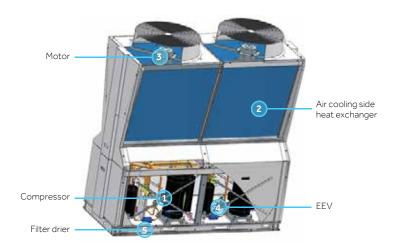


For example the model CA0070AAND



N≤16

Features



Compressor

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

Motor



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

Air cooling side heat exchanger



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

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

Easy Installation



Compact design, reduce footprint

New Y-shape design, small floor area, only 1.56m², 28% footprint reduction.



Standard flow switch

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

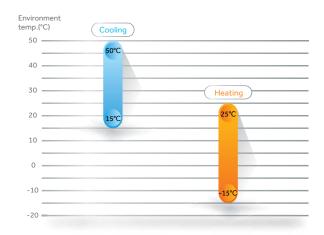


Wide Application

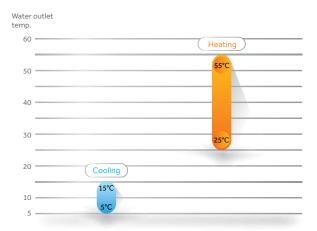


Wide temperature operation range

• -15°C in heating, 50°C in cooling.



Water outlet temp up to 55°C



High Reliability



Shell & tube heat exchanger

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



Filter drier

Filter drier, absorb moisture in the system, and filter the refrigerant from impurities.



Pressure sensor control

Through the pressure sensor real-time monitoring, can be achieved quickly, accurately, ensure the unit operates most efficient and stable.



Three phase fan motor

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

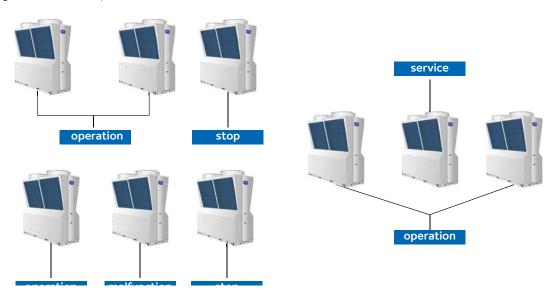


High Reliability



Backup operation function

Sixteen modules can be connected in one system. If one module malfunction another module will start automatically according to the water temperature.





Safety and protection

Phase reverse protection, high and low pressure protection, freeze protection, overheat protection, overload protection, etc.

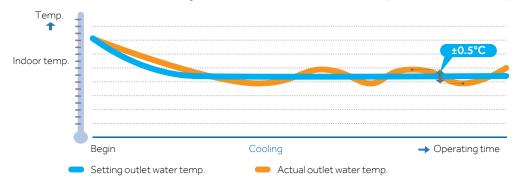


Comfort

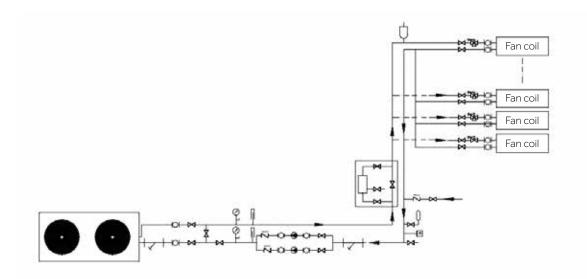


Accurately control water temperature

 ${\sf EEV}$ adopts PID control, accurate control refrigerant distribution, outlet water temp. $\pm 5\%$ of the set temperature .



Water System Installation Sketch



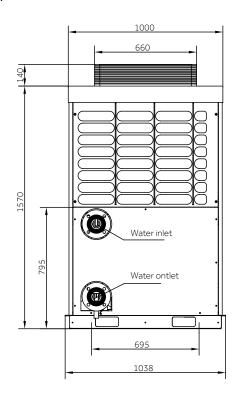
Model	Description	Model	Description
	Check valve		Water pump
	Automatic exhaust valve	101	flexible connection
	Water filter	Q	Expansion tank
─	Stop valve	0	Electronic water processor
	Thermometer		3-way valve
\bigcirc		٠	

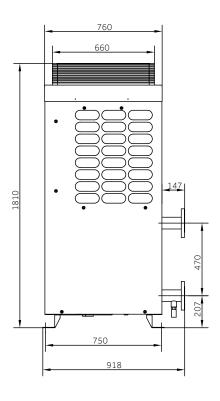
Unit Dimension Diagram



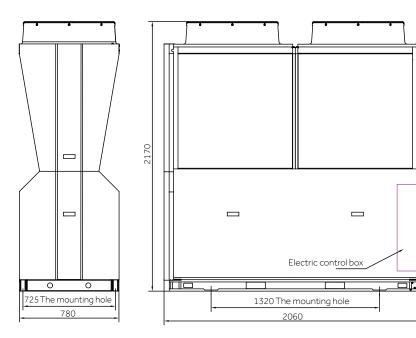
R410a Y-shape air-cooled modular chiller dimension

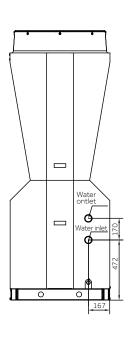
CA0035EAND Model





CA0070EAND Model



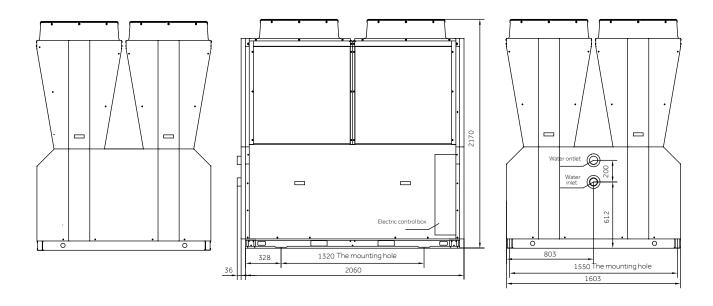


Unit Dimension Diagram

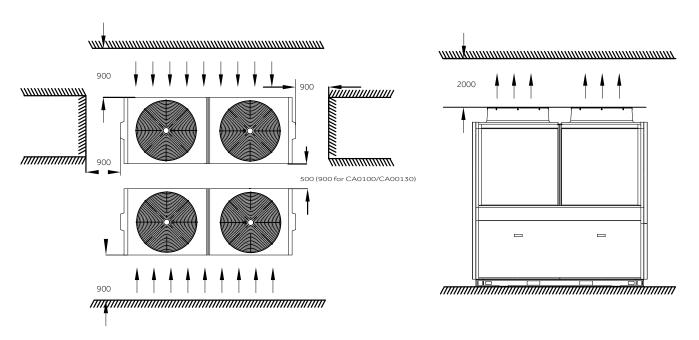


R410a Y-shape air-cooled modular chiller dimension

CA0100EAND/CA0130EAND Model



The Unit Installation & Maintenance Space





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