1903-8C1905

Commercial Air Conditioners **2019/2020**

Inverter Direct-drive Full Falling Film Centrifugal Chiller

Cooling Capacity: 250~1300RT

50/60Hz

AHRI CERTIFIED™ www.ahridirectory.org

Commercial Air Conditioner Division

Midea Group

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

Postal code: 528311

Tel: +86-757-26338346 Fax: +86-757-22390205

cac.midea.com global.midea.com

Quality Assurance ISO 9001 · Environmental Management ISO 14001 · Occupational Health and Safety Assessment OHSAS 18001

Midea CAC

Midea CAC is a key division of the Midea Group, a leading producer of consumer appliances and provider of heating, ventilation and air conditioning solutions. Midea CAC has continued with the tradition of innovation upon which it was founded, and emerged as a global leader in the HVAC industry. A strong drive for advancement has created a groundbreaking R&D department that has placed Midea CAC at the forefront of a competitive field. Through these independent efforts and joint cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.

We have three production bases: Shunde, Chongqing and Hefei.
MCAC Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters, and AHU/FCU.
MCAC Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers.
MCAC Hefei: 11 product lines focusing on VRF, Chillers, and Heat Pump Water Heaters.

MIDEA GROUP
FORTUNE GLOBAL
FORTUNE
500

2017 » Developed the large capacity air cooled scroll chiller.
2016 » Acquire an 80% stake in Clivet.
2015 » Launched the inverter direct-drive centrifugal chiller and magnetic chiller.
An international strategic Platform has brought Midea Group, Carrier Corporation and Chongqing General Industry Group together in the chiller business.
2013 » Launched the super high efficiency centrifugal chiller with dual-stage compressor and full falling film evaporator.
2008 » Developed the Smart Star new-generation Semi-hermetic centrifugal chiller.
2007 » Won the first Midea centrifugal chiller project overseas.
2006 » Launched the first VFD (Variable Frequency Drive) centrifugal chiller.
2004 » Acquired MGRE entered the chiller industry.
2001 » The R134a (LC) series centrifugal chiller was named as a key national product.
1999 » Entered the CAC field.

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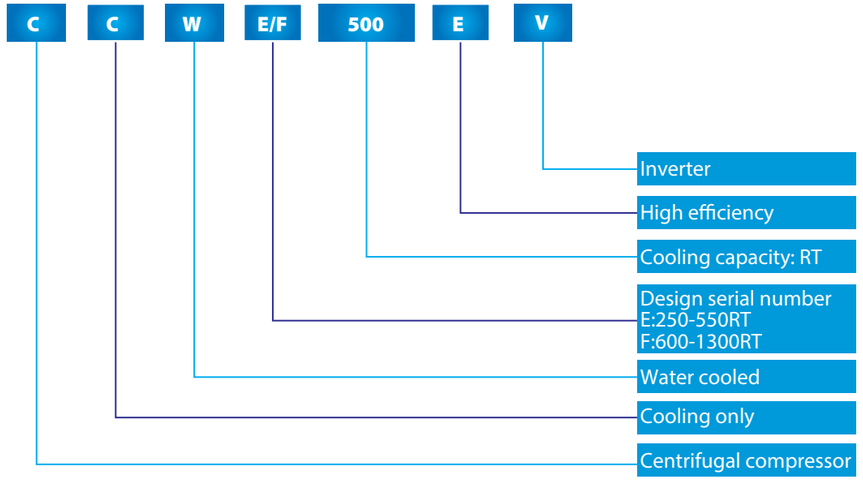
Overview

Nomenclature



AHRI CERTIFIED®
www.ahridirectory.org
Water-Cooled Water Chilling and Heat Pump Water-Heating Packages AHRI Standards 550/590 and 551/591

Certified in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org

Midea Commercial Air Conditioner stands on the frontier of intelligent and effective technological development on the path towards technology and product innovation. By building an internationalized R&D team, we have overcome various technical bottlenecks and first developed international-advanced core technologies such as the horizontally back-to-back uniaxial direct-drive centrifugal compression and full falling-film evaporation. The industry and users have responded positively to these technologies as applied to our new inverter direct-drive centrifugal chiller.

Benefits and Features:

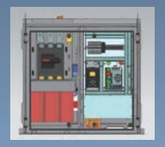
Energy saving: COP up to 6.58, IPLV up to 10.69

Technology leading: more than 20 patents

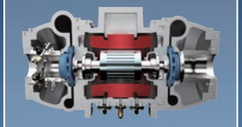
Environmentally friendly: less refrigerant charge and lower noise

Flexibility: wider operation range but compact size

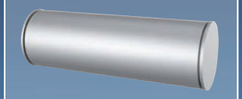
Unit Member



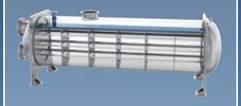
VFD panel
Unit-mounted and
free standing are available.



Horizontally
back-to-back compressor



Condenser with
integral economizer
(patented)
250-550RT:Internal 600-1300RT:External

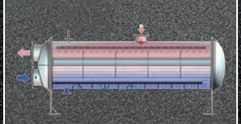


Full falling film
evaporator (patented)

Environmentally friendly
refrigerant

Inverter motor

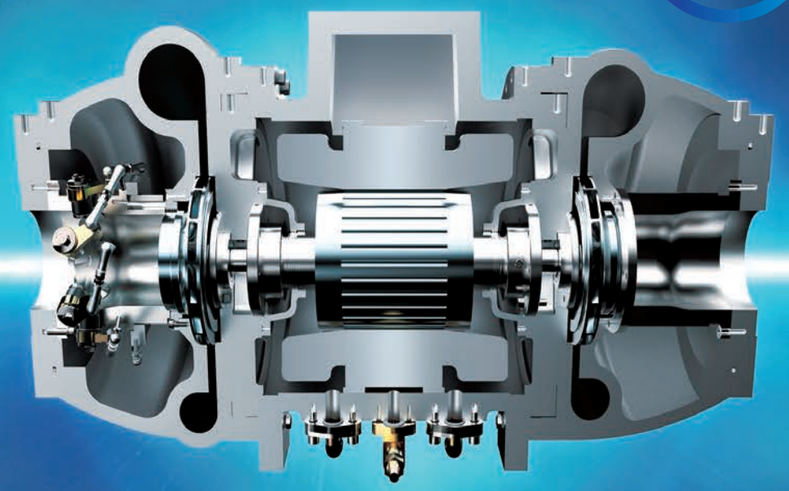
Color touch screen



Condenser
with integral sub-cooler

Features

Horizontally back-to-back centrifugal compressor



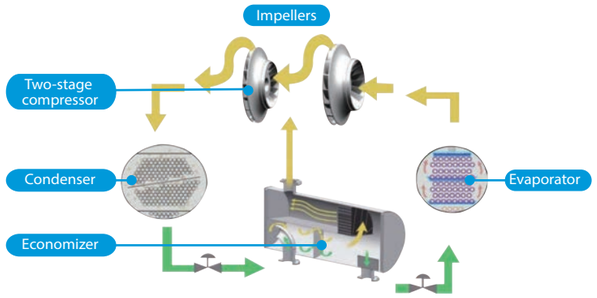
Midea inverter direct-drive centrifugal compressor adopts the patented technologies as follow:

1) Horizontally back-to-back self-balanced impeller
2) Impeller profile joint and fastening technology
3) Inlet guide vane regulating mechanism with rolling element
4) Integration design of thrust plate and rotation axis
5) Wire leading device and motor equipped with wire leading
6) A centrifugal chiller inlet guide vane correcting algorithm
7) Gas-inlet regulation mechanism and centrifugal compressor with this mechanism

Energy Saving

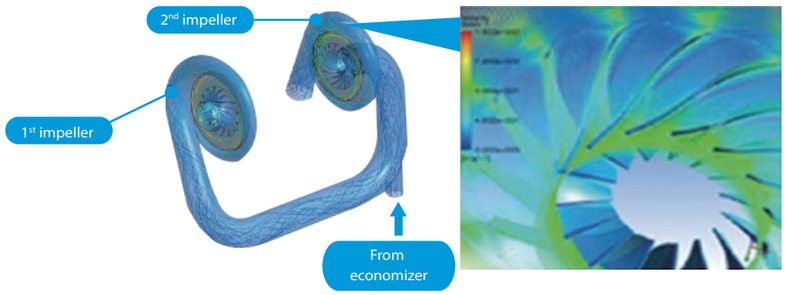
Two-stage compressing »

- 6% higher efficiency than single-stage compression.
- Lower speed and higher reliability.
- Unique three-stage separation economizer, reliable and effective.



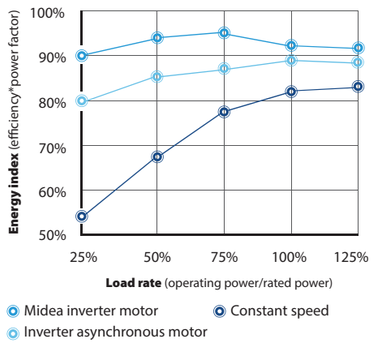
Aerodynamic compressor design »

- With 3D-flow closed and strongly backward-bladed impeller design, impeller efficiency higher than 97%.
- Unique pipeline crossover, with large backflow radius to reduce flow losses and noise.
- The technology of two-stage compression with economizer fully demonstrates the advantage of aerodynamic design and brings higher efficiency to the system.



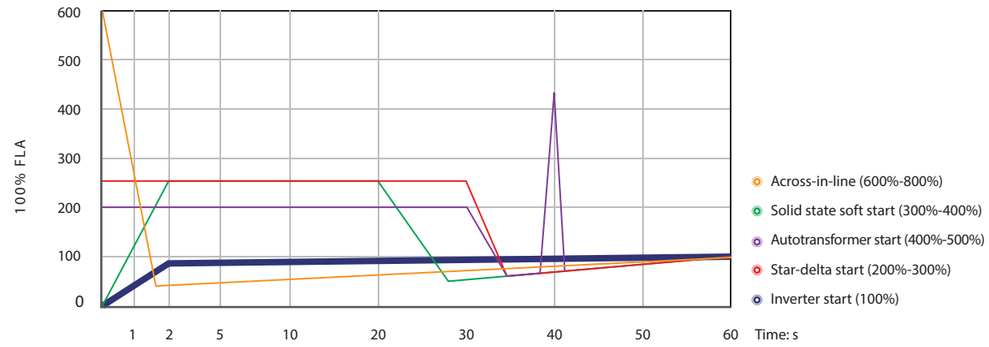
High efficiency inverter motor »

- Motor efficiency as high as 95.5%, energy index (efficiency*power factor) over 2% higher than inverter asynchronous motor.
- High power density and small size, with size only 20% of AC inverter motor.
- Designed based on speed and high-frequency operation, with variable frequency range of 120~300Hz.



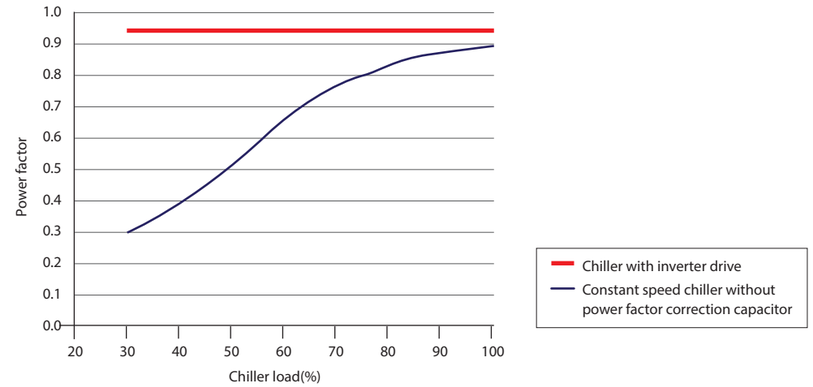
Zero in-rush current »

- The unit adopts inverter starting mode, which produces zero in-rush current during the starting process and enables a stable operation from 0A to FLA.



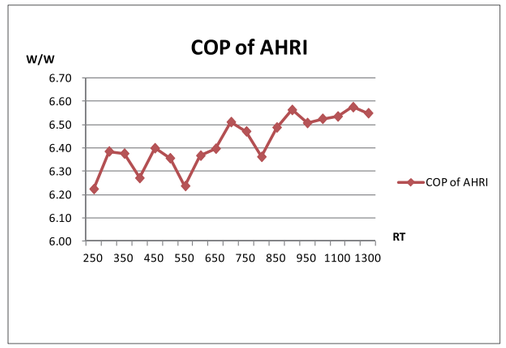
0.95 power factor »

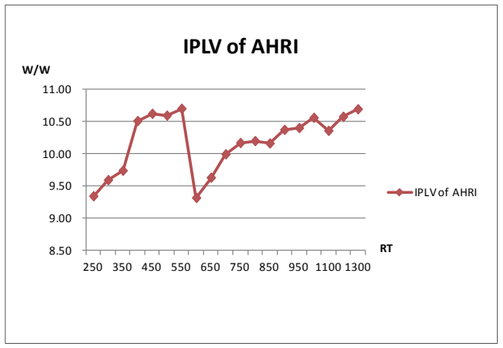
- The high power factor eliminates the need for a power factor connection capacitor.



High efficiency »

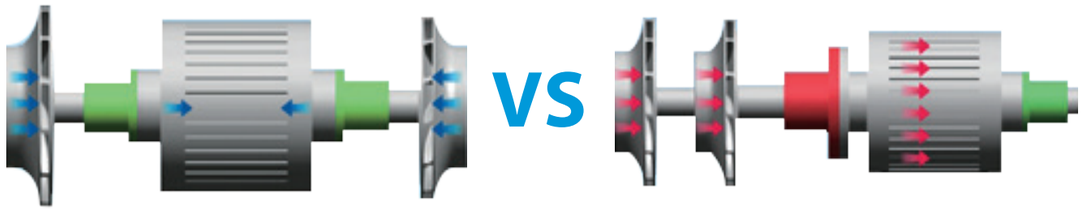
- Based on AHRI 550/590-2018 standards. From the diagram below, we can see the efficiencies of Midea direct-drive centrifugal chillers are higher than that of the standards.





Technology Leading

Horizontally back-to-back compression technology »



Midea horizontally back-to-back impeller

- Midea first developed the patented horizontally back-to-back compression technology with crossover pipe structure.
- Balance the thrust forces for longer life span and improved efficiency by less seal leakage and no gear loss.

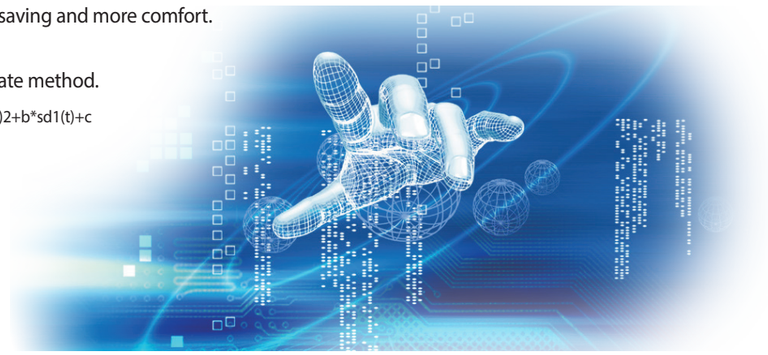
Traditional serial impeller

- The traditional two-stage centrifugal impellers are arranged in serial to the same direction, and the axial forces on the two impellers are from the same direction and overlapped.
- More stress on thrust bearing, cause mechanical damage, and require higher reliability of bearing.

Patented IGV correcting algorithm

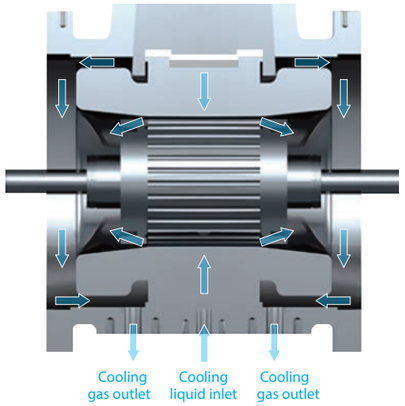
- Realized stable load regulating, energy saving and more comfort.
- High precision and high compatibility.
- Invented a centrifugal chiller load regulate method.

Guide vane opening correction model: B=a*sd1(t)2+b*sd1(t)+c
B: the 2nd guide vane opening
sd1(t): the 1st guide vane opening
a: quadratic coefficient
b: monomial coefficient
c: constant



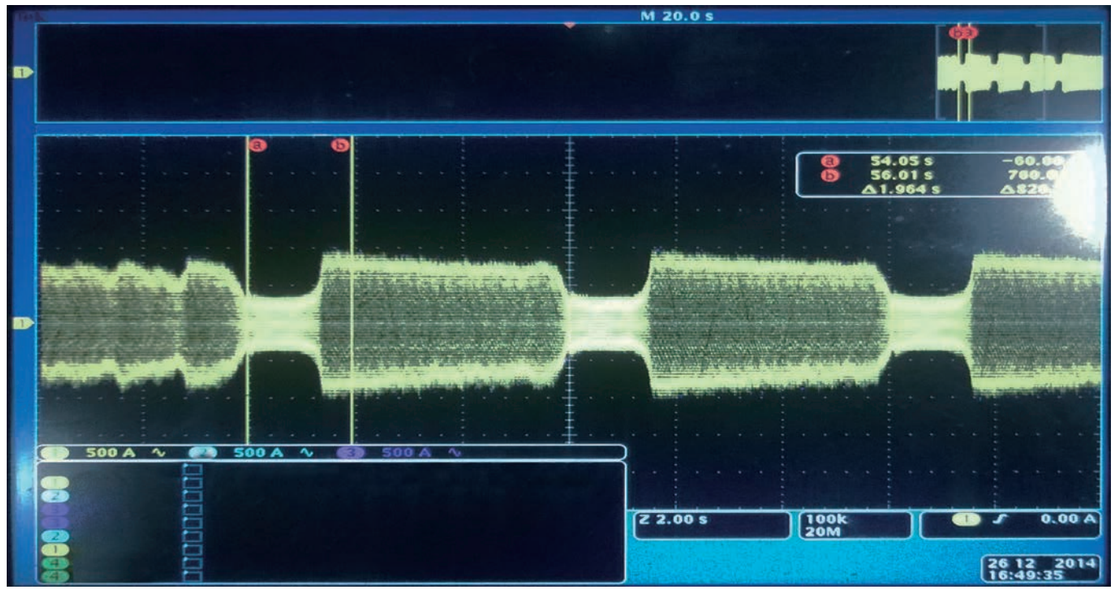
360° motor cooling technology »

- The motor is cooled by the refrigerant, with liquid supply and gas return at the bottom, thus high efficiency.
- Cooling method eliminates the potential for shaft seal leaks and refrigerant/oil loss.
- The motor adopts F-level insulation design, with three PTC temperature switches preset in the winding to ensure constant safety.



Anti-surge technology »

- Extend the surge curve: real-time to adjust the motor speed in different operation condition.
- Precise monitor and comparing: real-time to monitor running current and comparing running current curve to current data base in the controller.

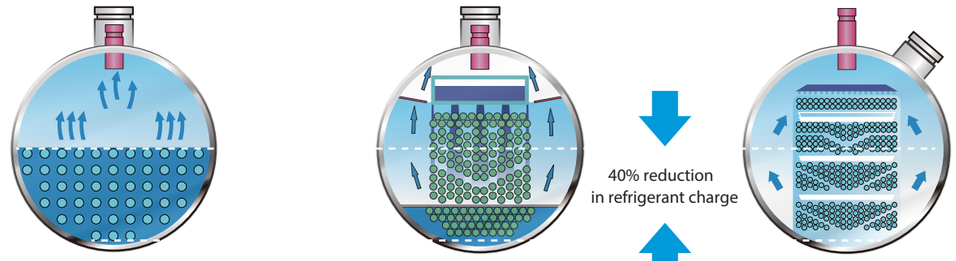


Typical current waveform in surging condition

Full Falling Film Evaporating Technology »

- First created the full falling film evaporator and adopted spray technology to achieve film evaporation on the surface of the heat exchange tube, greatly increasing overall heat transfer efficiency and reducing refrigerant charge by up to 40%.
- The patented refrigerant distributor can improve the homogeneity of the liquid to avoid local drying, fully showcasing the performance of the heat exchange tube and increasing unit efficiency.

Patent No: 201210414053.9; 201220552298.



Flooded type

Full falling film reduced refrigerant charge by 40% compared with the flooded type

Falling film

Falling film reduced refrigerant charge by 25% compared with the flooded type

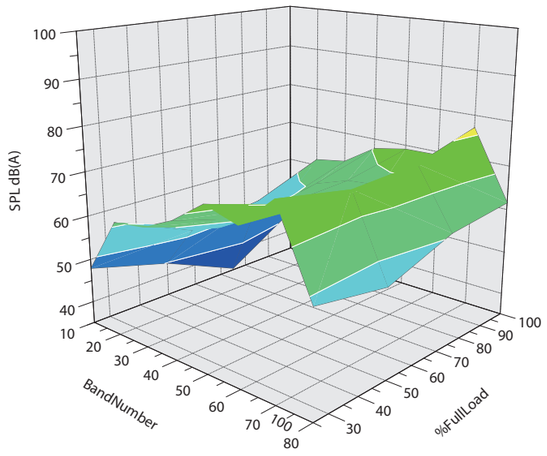
Midea full falling film

Almost zero liquid level

Environmentally friendly

Quieter operation »

Midea inverter direct-drive centrifugal chiller is the quietest chiller in its size range with sound pressure ratings as low as 78 dB(A) per AHRI Standard 575. That makes it ideal for sound sensitive environments such as schools, performance halls, museums, condominiums and libraries.



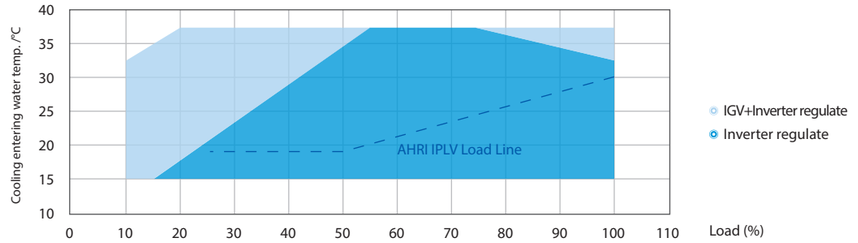
LEED »

Zero-ozone depletion R134a refrigerant, green, and has no elimination cycle.
Full falling-film technology reduces refrigerant charge by up to 40%, which enables you to qualify for maximum Leadership in Energy and Environmental Design®(LEED) points for Enhanced Refrigerant Management. And with the chiller' s high efficiency, you can also earn additional points for credits from Optimized Energy Performance (EAc1).

Flexibility

Wider operation map »

- Only inverter regulation on AHRI condition to save energy.
- Capacity load from 10%~100% and cooling EWT up to 37 °C are able to satisfy the application requirement of multiple operating conditions(load10%-20% need hot gas bypass).



More choices »

Unit-mounted and free standing starter panel are available.

Option 1

Option 2

Compact size »

Compact size is ideal for retrofit as well as small installation space project. The space savings can add up as quickly as the energy savings.

Specification

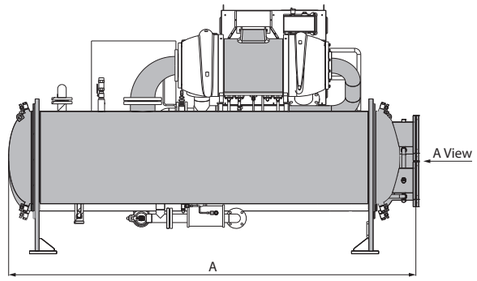
Model(CCWE***EV)			250	300	350	400	450	500	550
Cooling capacity	RT		250	300	350	400	450	500	550
	kW		879.0	1055	1231	1406	1582	1758	1934
	10^4kcal/h		76	91	106	121	136	151	166
Efficiency	Power input	kW	141.2	165.3	193.1	224.2	247.2	276.6	310.1
	COP	kW/kW	6.224	6.391	6.386	6.272	6.401	6.356	6.236
	IPLV	kW/kW	9.341	9.589	9.736	10.51	10.62	10.59	10.69
Compressor	Configured power	kW	200	200	200	240	280	315	350
	Power supply		380V-3Ph-50/60Hz						
	Starting method		VFD Starter						
	Motor cooled by		Refrigerant						
Evaporator	Chilled water flow	m^3/h	136.2	163.5	190.7	218.0	245.2	272.5	299.7
	Chilled water pressure drop	kPa	43.3	43.2	43.6	42.9	43.1	42.4	44.2
	Pass		2						
	Connection type		Flanged						
	Water pipe connection		DN200	DN200	DN200	DN250	DN250	DN250	DN250
Condenser	Cooling water flow	m^3/h	170.3	204.4	238.4	272.5	306.6	340.6	374.7
	Cooling water pressure drop	kPa	45.0	46.3	46.5	45.2	45.2	47.1	47.2
	Pass		2						
	Connection type		Flanged						
	Water pipe connection		DN200	DN200	DN200	DN250	DN250	DN250	DN250
Weight	Shipping weight	kg	4650	4800	4950	5650	5800	5950	6100
	Running weight	kg	5560	5760	5960	6710	6910	7110	7310
Dimension	Unit length	mm	3650	3650	3650	3650	3650	3650	3650
	Unit width	mm	1940	1940	1940	2000	2000	2000	2000
	Unit height	mm	2150	2150	2150	2150	2150	2150	2150
	Packing length	mm	3650	3650	3650	3650	3650	3650	3650
	Packing width	mm	1940	1940	1940	2000	2000	2000	2000
	Packing height	mm	2350	2350	2350	2350	2350	2350	2350

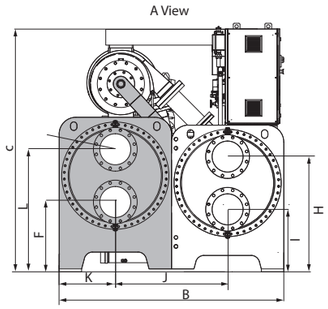
Note:
(1) Performance and efficiency are based on AHRI 550/590-2018. Evaporator conditions: water inlet=54°F, water outlet=44°F, fouling factor=0.0176m^2. °C/kW;
Condenser conditions: water inlet=85°F, water outlet=94.3°F, fouling factor=0.0440m^2. °C/kW.
(2) The design's max working pressure for both the evaporator and condenser are 1.0MPa, but higher pressure can be customized if required.
(3) As a result of the continuous improvement of the product, the above parameters may be changed, please refer to the product nameplate and in-kind.

Dimension

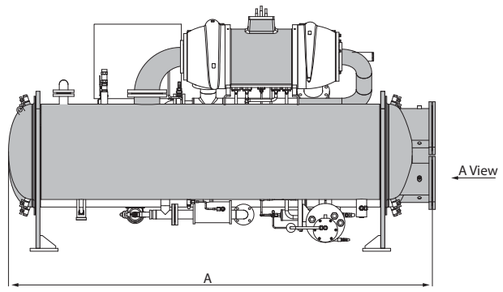
CCWE250EV-CCWE550EV

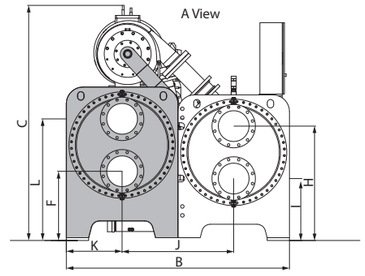
Unit-mounted:

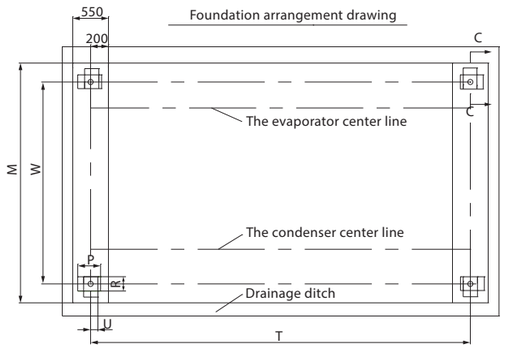


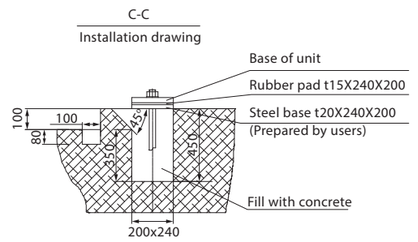


Free standing:









Model	Dimension			Uint base						Pipe locate position					
	L (A)	W (B)	H (C)	M	W	P	R	U	T	F	L	K	I	H	J
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CCWE250EV	3650	1940	2150	2240	1740	240	200	100	2780	670	1040	485	605	975	970
CCWE300EV															
CCWE350EV															
CCWE400EV	3650	2000	2150	2300	1800	240	200	100	2780	620	1090	500	555	1025	1000
CCWE450EV															
CCWE500EV															
CCWE550EV															

Specification

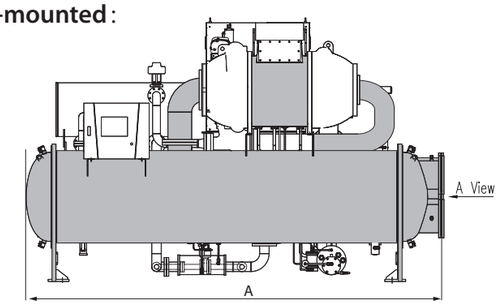
Model(CCWF***EV)			600EV	650EV	700EV	750EV	800EV	850EV	900EV	950EV	1000EV	1100EV	1200EV	1300EV
Cooling capacity	RT		600	650	700	750	800	850	900	950	1000	1100	1200	1300
	kW		2110	2285	2461	2637	2813	2989	3164	3340	3516	3868	4219	4571
	10^4kcal/h		181.4	196.6	211.7	226.8	241.9	257.0	272.2	287.3	302.4	332.6	362.9	393.1
Efficiency	Power input	kW	331.3	357.2	378.0	407.5	442.1	460.7	482.2	513.3	538.8	591.8	641.7	698.0
	COP	kW/kW	6.37	6.40	6.51	6.47	6.36	6.49	6.56	6.51	6.53	6.54	6.58	6.55
	IPLV	kW/kW	9.32	9.63	9.99	10.17	10.20	10.16	10.37	10.40	10.56	10.36	10.57	10.69
Compressor	Configured power	kW	400	400	400	450	500	500	500	560	560	630	700	800
	Power supply		380V-3Ph-50/60Hz											
	Starting method		VFD Starter											
	Motor cooled by		Refrigerant											
Evaporator	Chilled water flow	m^3/h	325.9	353.1	380.3	407.4	434.6	461.7	488.9	516.1	543.2	597.5	651.9	706.2
	Chilled water pressure drop	kPa	53.8	52.2	58.6	56.1	60.1	56.2	62.4	54.5	58.4	57.0	57.0	56.0
	Pass		2											
	Connection type		Flanged											
	Water pipe connection		DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Condenser	Cooling water flow	m^3/h	404.3	437.9	470.6	504.7	539.7	572.2	605.2	639.8	673.3	740.7	807.5	875.1
	Cooling water pressure drop	kPa	51.4	54.5	51.0	55.1	54.7	55.2	58.9	53.4	55.6	52.6	53.4	58.0
	Pass		2											
	Connection type		Flanged											
	Water pipe connection		DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Weight	Shipping weight	kg	10700	10790	11080	11210	11330	12885	12915	13450	13450	16180	16495	16710
	Running weight	kg	9060	9120	9330	9410	9490	10665	10690	11050	11050	13320	13520	13650
Dimension	Unit length	mm	4700	4700	4700	4700	4700	4750	4750	4750	4750	4800	4800	4800
	Unit width	mm	1950	1950	1950	1950	1950	2150	2150	2150	2150	2260	2260	2260
	Unit height	mm	2750	2750	2750	2750	2750	2900	2900	2900	2900	3050	3050	3050
	Packing length	mm	4700	4700	4700	4700	4700	4750	4750	4750	4750	4800	4800	4800
	Packing width	mm	1950	1950	1950	1950	1950	2150	2150	2150	2150	2260	2260	2260
	Packing height	mm	2950	2950	2950	2950	2950	3100	3100	3100	3100	3250	3250	3250

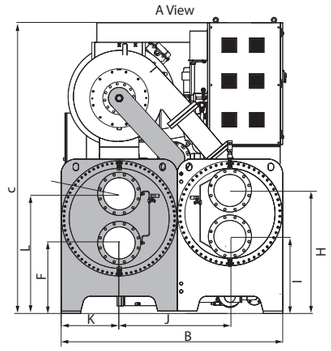
Note:
(1) Performance and efficiency are based on AHRI 550/590-2018. Evaporator conditions: water inlet=54°F, water outlet=44°F, fouling factor=0.0176m^2. °C/kW;
Condenser conditions: water inlet=85°F, water outlet=94.3°F, fouling factor=0.0440m^2. °C/kW.
(2) The design's max working pressure for both the evaporator and condenser are 1.0MPa, but higher pressure can be customized if required.
(3) As a result of the continuous improvement of the product, the above parameters may be changed, please refer to the product nameplate and in-kind.

Dimension

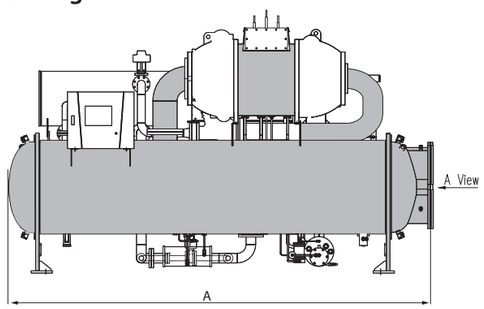
CCWF600EV-CCWF1300EV

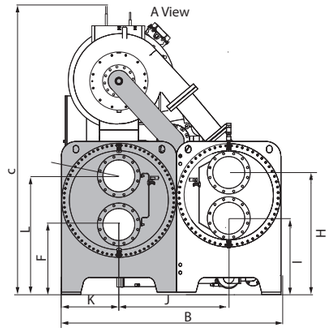
Unit-mounted:

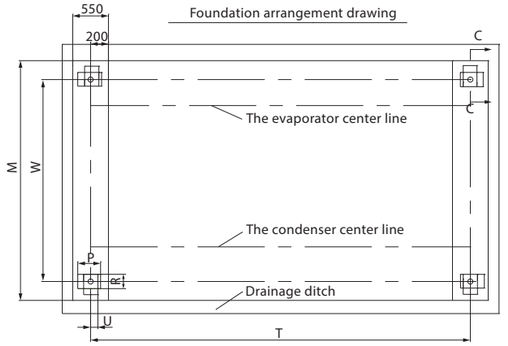


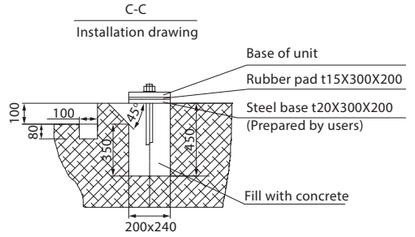


Free standing:







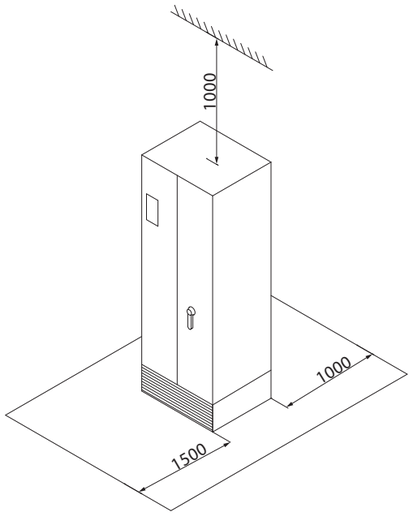


Model	Dimension			Uint base						Pipe locate position					
	L (A)	W (B)	H (C)	M	W	P	R	U	T	F	L	K	I	H	J
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CCWF600EV	4700	1950	2750	2550	1750	240	200	200	3780	635	1095	500	683	1143	975
CCWF650EV															
CCWF700EV															
CCWF750EV															
CCWF800EV															
CCWF850EV	4750	2150	2900	2750	1950	240	200	200	3780	710	1180	550	765	1225	1075
CCWF900EV															
CCWF950EV															
CCWF1000EV															
CCWF1100EV	4800	2260	3050	2860	2060	240	200	200	3780	720	1220	593	785	1255	1130
CCWF1200EV															
CCWF1300EV															

VFD starter panel dimension

CCWE250EV-CCWE500EV

Free standing starter panel



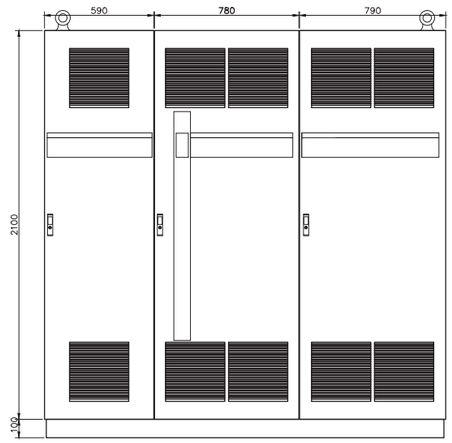
Starter panel space layout

CCWE550EV

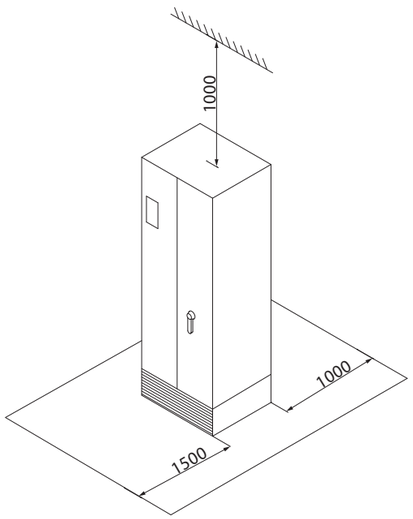
Free standing starter panel

Model (CCWE***EV)	250	300	350	400	450	500	550
Weight of starter panel (kg)	210	210	210	230	280	280	280

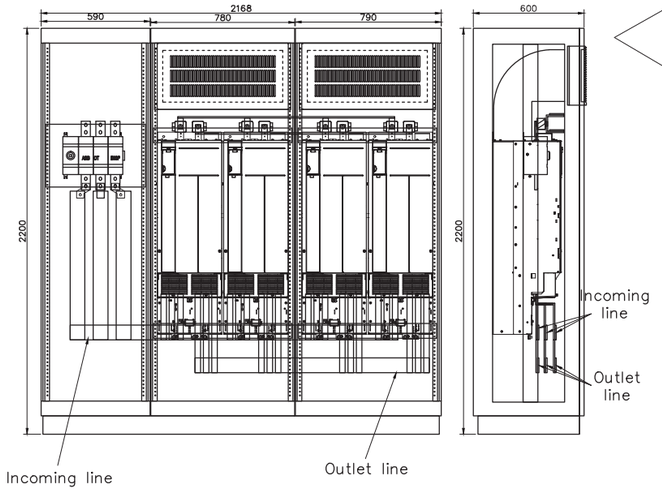
CCWF600EV-CCWF1300EV



Free standing starter panel



Starter panel space layout



Free standing starter panel

Model (CCWF***EV)	600	650	700	750	800	850	850	900	950	1000	1100	1300
Weight of starter panel (kg)	650	650	650	650	750	750	750	750	750	750	1017	1561

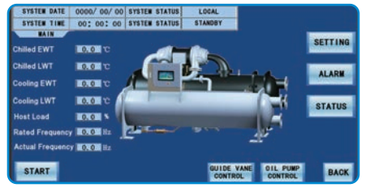
Options/Accessories

Accessories	Standard	Optional
Power supply	380V-3Ph-50Hz	50Hz: 400V, 415V 60Hz: 380V, 400V, 440V, 460V, 480V
Water inlet/outlet connection type	Flange	×
High pressure water boxes	1.0MPa	1.6MPa, 2.0MPa
Water boxes	Compact	Marine
Pressure vessel pass	2 passes	1 pass or 3 passes
VSD (Variable speed drive)	√	×
Chiller starter	Free standing VFD panel	Unit-mounted
Chiller sequence management (Chiller Plant Manager)	×	√
Chiller vibration isolator	Rubber	Spring
Dual compressor	×	√
Heat recovery	×	Full recovery
Chilled water Delta T	5℃	6℃~11℃
Centrifugal heat pump	×	Hot water temperature up to 45℃
Water storage	×	√
Communication protocol	Modbus-RTU (RS485)	BACnet
Hot gas bypass	×	√
Flow switch	Differential pressure	×
Witness performance testing	×	√

Operating and Control System

-Intelligent color touch screen

- The perfect operating and control system of centrifugal chiller integrates a series of control and monitoring functions including intelligent operations, safety protection and interlocking control to achieve reliable start, high efficiency operations and internal control of chiller.
- Midea is responsible for the installation and commissioning of centrifugal chiller to ensure more convenient and more secure operation for users.

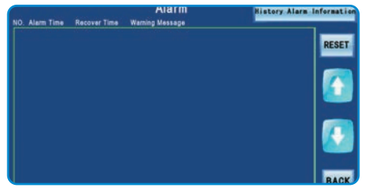


Interface display

- 10-in true color graphic display interface
- Touch screen
- Operating status
- Multi-level passwords
- Operation parameters
- Pre-alarm/alarm display and record

Operation control

- User-set water leaving temperature
- Auto loading/unloading
- Soft-loading
- Pause function
- Independent start/stop function
- Timer
- Inquiry of unit details



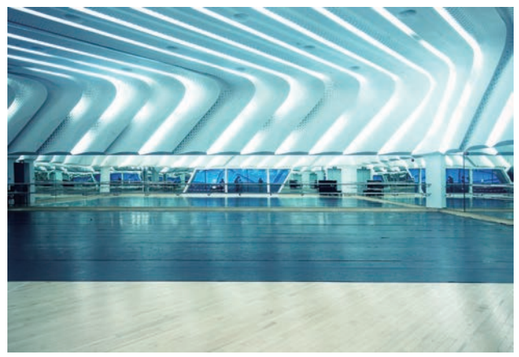
Interlocking control

- Pre-lubrication/post-lubrication of oil pump
- Compressor anti-surge interlocking
- Pre-operation/post-operation of water pump
- Safty checks before startup
- Interlocking control on the starter panel
- Pre-alarm of interlocking
- Pause/Stop mode IGV interlocking
- Frequency control (loading/unloading, anti-surge)
- Reserved port for PC
- Superheat degree monitoring (suction and discharge)

Safety protection

- Pressure of lubricating oil is low/too low
- Oil pump overload
- Temperature of lubricating oil is high/too high
- Starter panel fault
- Running current of the compressor is high/too high
- Start time too long
- Running current of the compressor is too low
- Water-break of evaporator and condenser
- Evaporation pressure low/too low
- Frost protection
- Condensing pressure high/too high

Reference Projects



Guangzhou Baiyun International Airport

Country:	China
City:	Guangzhou
Total capacity:	37,980 RT
HVAC:	Centrifugal chiller (inverter direct-drive, high efficiency)

Shanghai Metro Line 2

Country:	China
City:	Shanghai
Total capacity:	1,850 RT
HVAC:	Centrifugal chiller, Air-cooled screw chiller (inverter direct-drive)

Plaza Corona (Five star)

Country:	Peru
City:	Tumbes
Total capacity:	1,200 RT
HVAC:	Air cooled screw chiller, Centrifugal chiller (inverter direct-drive)

Grand Mercure Hotel (Five Star)

Country:	Indonesia
City:	Jakarta
Total capacity:	1,200 RT
HVAC:	Centrifugal chiller (inverter direct-drive)

Taiwan Taoyuan Hospital

Country:	China
City:	Taiwan
Total capacity:	500 RT
HVAC:	Centrifugal chiller (inverter direct-drive)

Chile Ministry of Foreign Affairs

Country:	Chile
City:	Santiago
Total capacity:	600 RT
HVAC:	Centrifugal chiller (inverter direct-drive)

Rupafil Textile Mill

Country:	Pakistan
City:	Multan
Total capacity:	550 RT
HVAC:	Centrifugal chiller (inverter direct-drive)

Reference Projects List

Project	Country	City	HVAC	Cap./ Nos
Plaza Corona Project	Peru	Tumbes	Centrifugal chiller (Inverter direct-drive)+Screw chiller	Total Cooling cap 1200RT, 3nos
Ministry of Foreign Affairs	Chile	Santiago	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 600RT, 2nos
Grand Mercure	Indonesia	Jakarta	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 1200RT, 3nos
Qingyuan City Hospital	China	Qingyuan	Centrifugal chiller(Inverter direct-drive)+Screw chiller	Total Cooling cap 900RT, 2nos
Taoyuan Hospital	China	Taiwan	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 500RT, 1nos
Rupafil Textile Mill	Pakistan	Multan	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 550RT, 1nos
Coca-Cola Enterprises	China	Taiwan	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 500RT, 1nos
Xuzhou Xindu Shopping Mall	China	Xuzhou	Centrifugal chiller(Inverter direct-drive), Water-cooled screw chiller	Total Cooling cap 607RT, 2nos
Shenyang Dispatch Building	China	Shenyang	Centrifugal chiller(Inverter direct-drive+high efficiency), Water-cooled screw chiller	Total Cooling cap 2348RT, 6nos
Lanzhou West Railway Station	China	Lanzhou	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 3000RT, 6nos
Guangzhou Baiyun International Airport	China	Guangzhou	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 37980RT, 30nos
Shanghai Metro	China	Shanghai	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 1850RT, 6nos
Longkou Xiangchi Company	China	Weifang	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 550RT, 1nos
Yihe Runfeng Company	China	Beijing	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 1400RT, 3nos
Midea Global Innovation Center	China	Foshan	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 250RT, 1nos
Midea Wuhan Refrigeration Equipment Co., Ltd	China	Wuhan	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 400RT, 1nos
Wuhu Meizhi Air Conditioning Equipment Co., Ltd	China	Wuhu	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 350RT, 1nos
Welling Factory	China	Foshan	Centrifugal chiller(Inverter direct-drive)	Total Cooling cap 400RT, 1nos
Indriati Solo Hospital	Indonesia	Thoreau	Centrifugal chiller(High efficiency)	Total Cooling cap 700RT, 1nos
Dalma Mall	UAE	Abu Dhabi	Centrifugal chiller(Super high efficiency)	Total Cooling cap 10000RT, 5nos
Sanliurfa Harran university	Turkey	Sanliurfa	Centrifugal chiller	Total Cooling cap 2900RT, 3nos
The Mixs Mall	Laos	Vientiane	Centrifugal chiller	Total Cooling cap 1300RT, 2nos
Federal Security Service	Russia	Moscow	Centrifugal chiller	Total Cooling cap 4400RT, 5nos
Butovo Mall	Russia	Moscow	Centrifugal chiller	Total Cooling cap 1100RT, 2nos

Project	Country	City	HVAC	Cap./ Nos
Hartono Mall	Indonesia	Djakarta	Centrifugal chiller	Total Cooling cap 9000RT, 9nos
Shenzhou Textile Mills	Vietnam	Ho Chi Minh City	Centrifugal chiller(High efficiency)	Total Cooling cap 8200RT, 10nos
Kangle Liangheng Shopping Mall	China	Linxia	Centrifugal chiller(Inverter)	Total Cooling cap 2000RT, 2nos
Liujiaxia Hotel	China	Tianshui	Centrifugal chiller(Inverter)	Total Cooling cap 1000RT, 2nos
Zaoyang Mixs Mall Investment co., LTD	China	Xiangyang	Centrifugal chiller(Inverter)	Total Cooling cap 1350RT, 2nos
Tianhe Airport	China	Wuhan	Centrifugal chiller(Inverter)	Total Cooling cap 1650RT, 3nos
Guilin Yiwu International Shopping Mall	China	Guilin	Centrifugal chiller(Inverter)	Total Cooling cap 1950RT, 3nos
The People's Hospital of Feng Country	China	Xuzhou	Centrifugal chiller(Inverter)	Total Cooling cap 2000RT, 3nos
The People's Hospital of Shouguang City	China	Shouguang	Centrifugal chiller(Inverter)	Total Cooling cap 1800RT, 3nos
Wuxiang Taihang Hotel	China	Changzhi	Centrifugal chiller(Inverter)	Total Cooling cap 1400RT, 2nos
Mengshan XindaCentral Plaza	China	Wuzhou	Centrifugal chiller(Inverter)	Total Cooling cap 800RT, 2nos
Institute of High Energy Physics	China	Beijing	Centrifugal chiller(High efficiency)	Total Cooling cap 2000RT, 2nos
Shunde Desheng Plaza	China	Foshan	Centrifugal chiller(High efficiency)	Total Cooling cap 1300RT, 1nos
The People's Hospital of Feidong Country	China	Hefei	Centrifugal chiller(High efficiency)	Total Cooling cap 3000RT, 3nos
Chuzhou Suning	China	Chuzhou	Centrifugal chiller(High efficiency)	Total Cooling cap 1600RT, 2nos
Tianhong World Trade Plaza	China	Zhoukou	Centrifugal chiller(High efficiency)	Total Cooling cap 3200RT, 4nos
Wenzhou Transportation International TaoBao Mall	China	Wenzhou	Centrifugal chiller(High efficiency)	Total Cooling cap 3000RT, 3nos
Chongqing Zhaojia Real Estate Development co., LTD	China	Chongqing	Centrifugal chiller(High efficiency)	Total Cooling cap 900RT, 1nos
The Second Hospital of Shanxi Medical College	China	Taiyuan	Centrifugal chiller(Super high efficiency)	Total Cooling cap 2000RT, 2nos
Mingyue Home Furnishing	China	Shijiazhuang	Air-cooled screw chiller(Super high efficiency)	Total Cooling cap 1104RT, 6nos
China Food Headquarters	China	Weifang	Air-cooled screw chiller(Super high efficiency)	Total Cooling cap 3250RT, 23nos
Jianghai Bigui Garden Phoenix Hotel	China	Jiangmen	Water-cooled screw chiller(High efficiency)	Total Cooling cap 600RT, 2nos
Zhongshan Nantou Station	China	Zhongshan	Water-cooled screw chiller(High efficiency)	Total Cooling cap 700RT, 2nos
Shuangyashan Broadcasting and Television Center	China	Shuangyashan	Water-cooled screw chiller(Inverter)	Total Cooling cap 824RT, 2nos
Shenzhen Railway Station	China	Shenzhen	Centrifugal chiller(Oil-free+high efficiency), Water-cooled screw chiller	Total Cooling cap 18525RT, 58nos
Hangzhou South Railway Station	China	Hangzhou	Centrifugal chiller, Air-cooled screw chiller(Inverter+high efficiency)	Total Cooling cap 1578RT, 10nos