

Water Cooled Centrifugal Chiller

170~3000RT



About Form

Founded in 1965, the main activity of Form Group companies is the Production, Sales and After Sales Services of Commercial and Residential air conditioners, in order to improve the quality of life. The Group is active in the sectors of Shopping Centers, Commercial Buildings, Hotels, Hospitals, Schools, Factories and Homes. The Group consists of 4 companies;

FORM Endüstri Urunleri A.S. specializes in commercial and industrial air conditioning solutions. The products sold and serviced are either manufactured by the sister companies in the Group; fancoils, water source heat pumps, rooftops, or imported from the exclusive representations from world known brands; Lennox, Clivet, Dunham Bush, Climate Master. The main products are rooftops, chillers, fancoils, heat pump units, air handling units, cooling towers and other commercial air conditioning products. The company is one of the top commercial sales and service providers in the Turkish A/C market.

FORM Endüstri Tesisleri A.S. is the manufacturing company of the Group and maintains its activities in 14,000 m2 factory in Izmir. The company has 2 main activities. The first one is the manufacturing and sales of natural smoke and heat extraction systems, evaporative coolers and natural daylight systems, mostly for the roofs of Industrial buildings. The second one is the OEM manufacturing of rooftops, water source heat pumps and fancoils for the Group companies.

FORM MHI Klima Sistemleri A.S. is a Joint Venture company with Mitsubishi Heavy Industries. The company provides sales and After Sales Services for commercial and Residential applications, with VRF and Split – Multi Split air conditioners. The company is one of the 3 biggest providers in the Turkish market for VRF equipment.

FORM Yonetim Destek A.S. is the management company that provides finance, accounting, logistics, IT, H&R and marketing services to the above three Group companies, as they only comprise of manufacturing, sales and service personnel.

The head office of FORM Group is located in Istanbul, Maslak business district. There are regional offices in Ankara, Antalya, Izmir, Adana and Bursa for each sales company separately, with the factory in Izmir.

FORM Group is a founding member of ISKID Turkish HVAC Association and ISKAV Turkish HVAC Foundation. The Group believes in professional organization and work ethics, by being a serious, reliable, technical and trustworthy provider, depending on the ethical values.



Always ready for the Future

40

agencies in Italy

630

employees in Italy
and abroad

75

countries we export to

50.000 m²

of plants in Feltre,
Belluno - Italy

6

branches: Great Britain, Germany, Spain,
Russia, UAE, India



For 30 years we have been offering solutions to ensure sustainable comfort and the well-being of people and the environment

In 30 years of working on the design, manufacturing and distribution of air conditioning and handling systems, combining high efficiency with minimal environmental impact, Clivet has developed solutions to ensure sustainable comfort and the well-being of people and the environment.

Designing and developing year-round air conditioning solutions with innovative technologies are part of Clivet's DNA, which means the company has always been ready for the future.

Clivet. Change things

2015

Clivet Live is born

2016

A Group Company of



FORTUNE GLOBAL 500

Midea Group #312 in 2019

40.5 \$M

Midea turnover

140

service centres



Our values
in the residential,
commercial and industrial
sectors

Increasing comfort, saving energy and providing customers with the best value for the entire life cycle of the system: these are the values that inspire our systems for the residential, services and industrial sectors.

INCREASE
COMFORT
LEVEL

REDUCE
ENERGY
CONSUMPTION

REDUCE
TOTAL LIFE
CYCLE COST



Centrifugal Chiller

Clivet Chiller has a complete product lineup and a wide application range to meet varied customer requirements. In 2013, Clivet launched the full falling film two-stage compression centrifugal chiller. In 2019, 2300~3000RT water cooled centrifugal chiller is specially designed for district cooling applications. The unit can be widely used in large temperature difference applications and large-scale public buildings including factories, airports, exhibition halls, grand theaters etc. 2300~3000RT units are one two-stage compressor centrifugal chillers. With patented heat exchange technology, the refrigerant charge amount is reduced by up to 40%. This innovation protects our environment and decreases CO₂ emissions significantly.

Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages
AHRI Standards 550/590 and 551/591



Clivet products comply with applicable product directives, as required in all EU countries, in order to guarantee an appropriate level of safety.



The wide range of Clivet products and complete systems comply with the requirements of the implementing measures for ERP (Energy related Products) Directives 2009/125/EC (Eco-design) and 2010/30/EU (Energy labelling)



Environment and safety management systems, in accordance with the ISO 9001, ISO 14001 and ISO 45001 International standards.



Clivet is committed in promoting the green building principles and has become a member of GBC Italia. This organization collaborates with USGBC, the U.S nonprofit organization that promotes worldwide the LEED system of independent certification.



References



Ercan International Airport
North Cyprus



Congress and Culture Center
Konya



Harran University
Sanliurfa



Courthouse New Building
Adana

References



Libeskind Tower
Milan, Italy



Westend City Center
Budapest, Hungary



Federal Security Service
Moscow, Russia



Baiyun International Airport
T2 Terminal
Guangzhou, China



Capital Airport T3 Terminal
Beijing, China



Platinum Wholesale City
Kelantan, Malaysia



Little World Shopping Mall
Mumbai, India



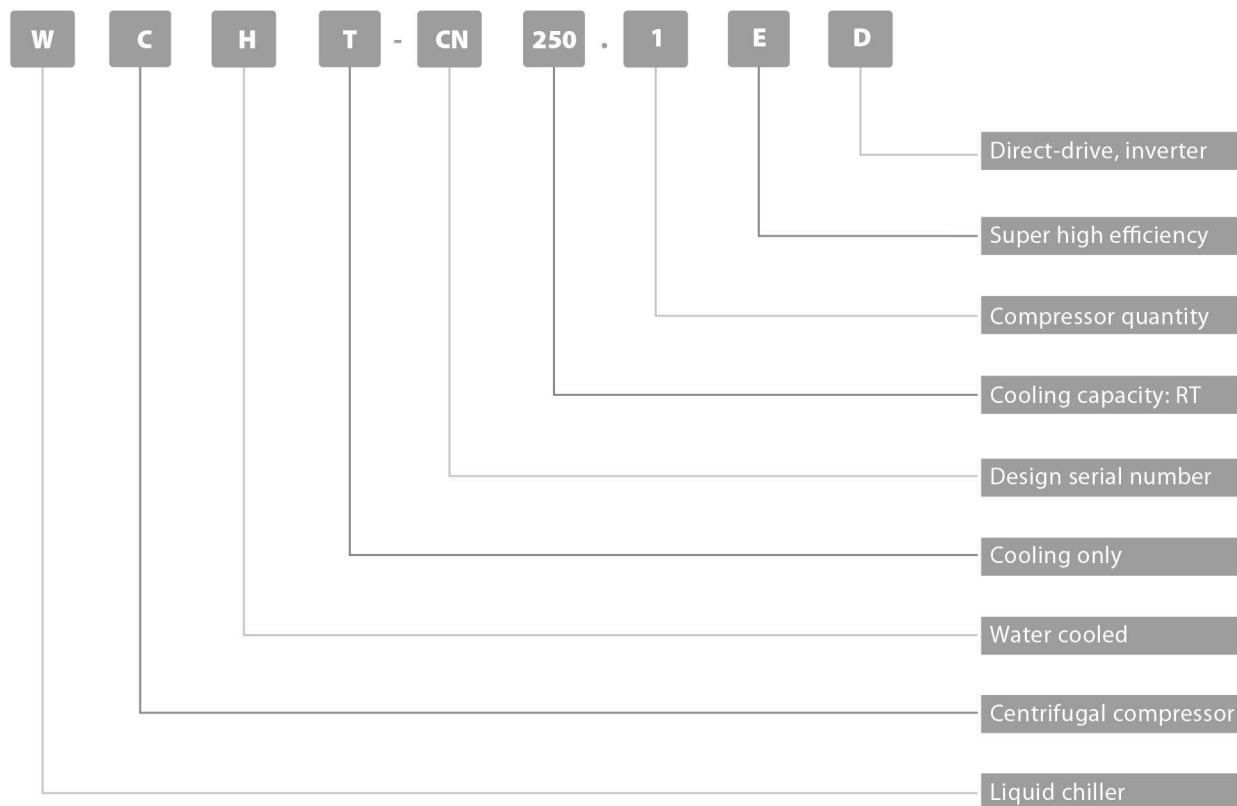
Indriati Hospital
Jawa Tengah, Indonesia



Dalma Mall
Abu Dhabi, UAE

Overview

NOMENCLATURE



Clivet 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 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.

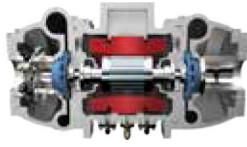
Benefits and Features:

- ❖ **Energy saving:** COP up to 6.58, IPLV up to 10.69
- ❖ **Leading technology:** more than 20 patents
- ❖ **Eco-friendly:** less refrigerant charge and lower noise
- ❖ **Flexibility:** wider operation range but compact size

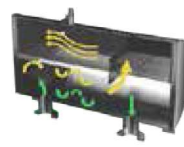
Unit Member



VFD panel



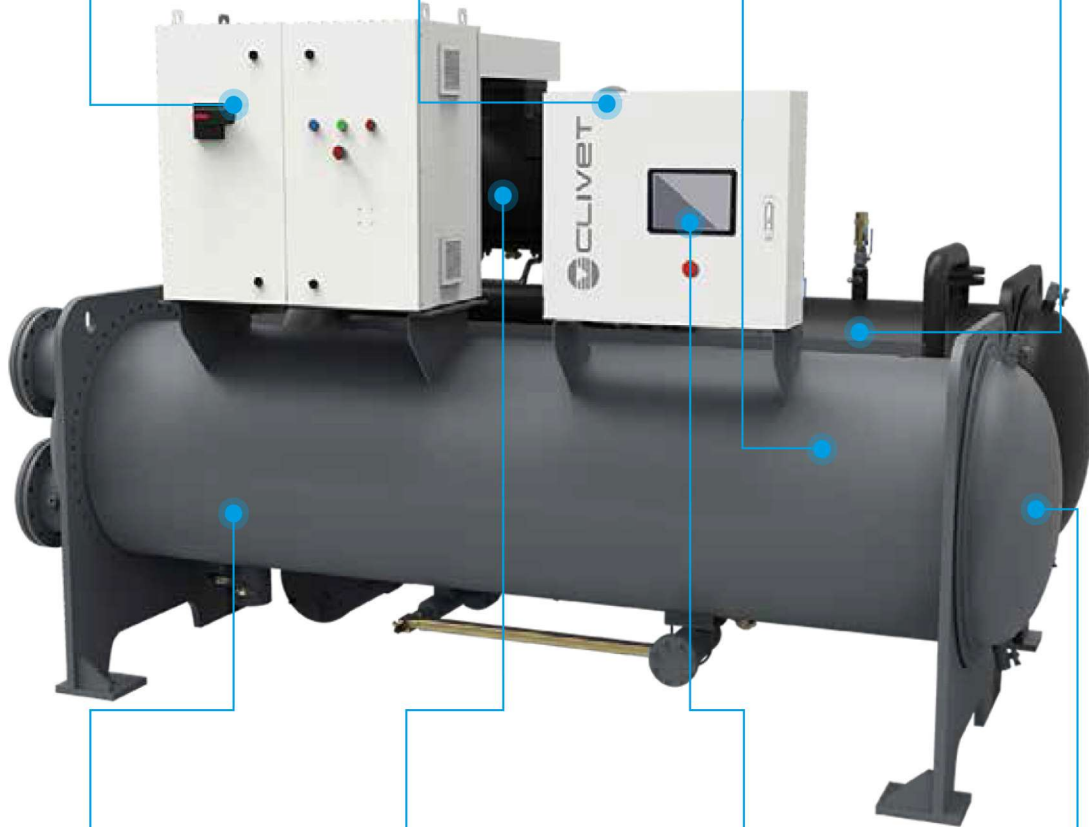
Back-to-back two-stage
compressor



Condenser with
integral economizer
(patented)
250-550RT: built-in economizer;
600-1300RT: external economizer



Full falling film
evaporator (patented)



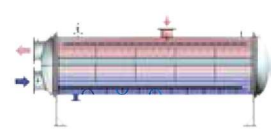
Eco-friendly
refrigerant



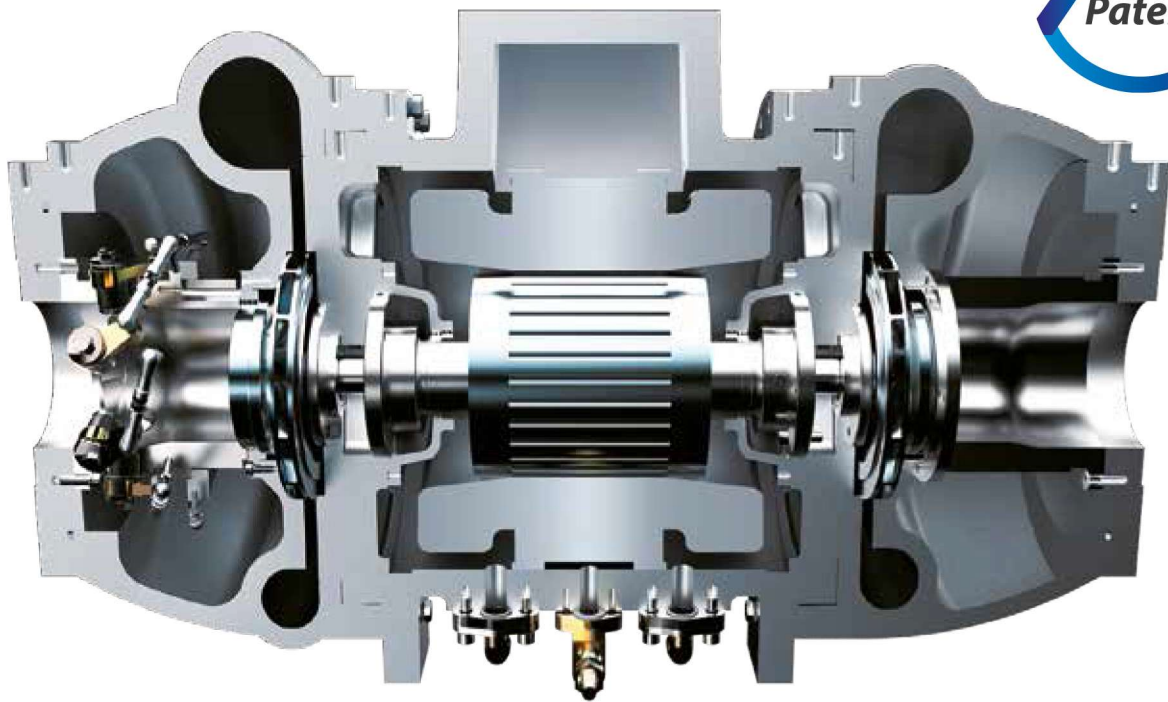
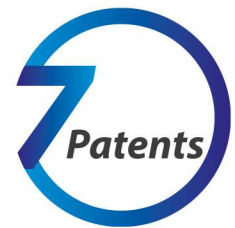
Inverter motor



Colorful touch screen



Condenser with integral
sub-cooler



Features

Back-to-back two-stage compressor

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

- ❖ Back-to-back self-balanced impeller
- ❖ Impeller profile joint and fastening technology
- ❖ Inlet guide vane regulating mechanism with rolling element
- ❖ Integration design of thrust plate and rotation axis
- ❖ Wire leading device and motor equipped with wire leading
- ❖ A centrifugal chiller inlet guide vane correcting algorithm
- ❖ Gas-inlet regulation mechanism and centrifugal compressor with this mechanism

Leading Technology

BACK-TO-BACK TWO-STAGE COMPRESSION TECHNOLOGY



CLIVET BACK-TO-BACK IMPELLER

- ❖ Clivet first developed the patented 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

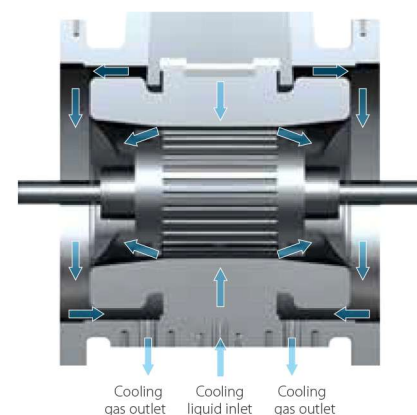
- ❖ The traditional two-stage centrifugal impellers are arranged in serial to the same direction and the axial forces on the two impellers are from the same direction and overlapped
- ❖ More stress on thrust bearing, cause mechanical damage and require higher reliability of bearing

PATENTED IGV CORRECTING ALGORITHM

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

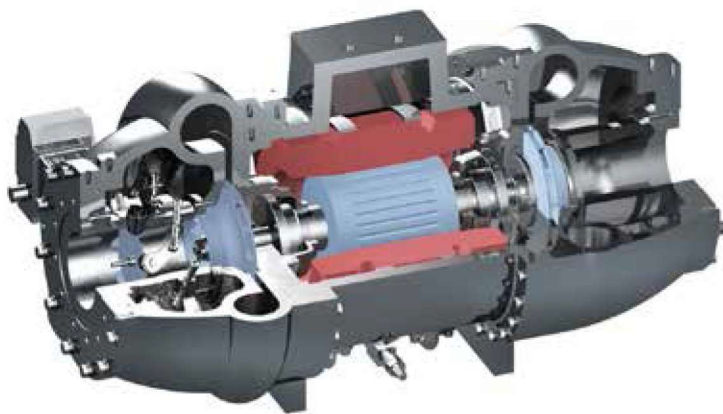
360° MOTOR COOLING TECHNOLOGY

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



Leading Technology

Direct Drive Design



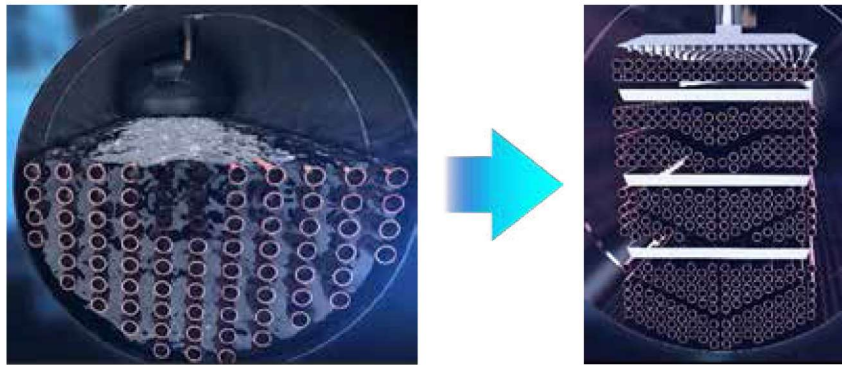
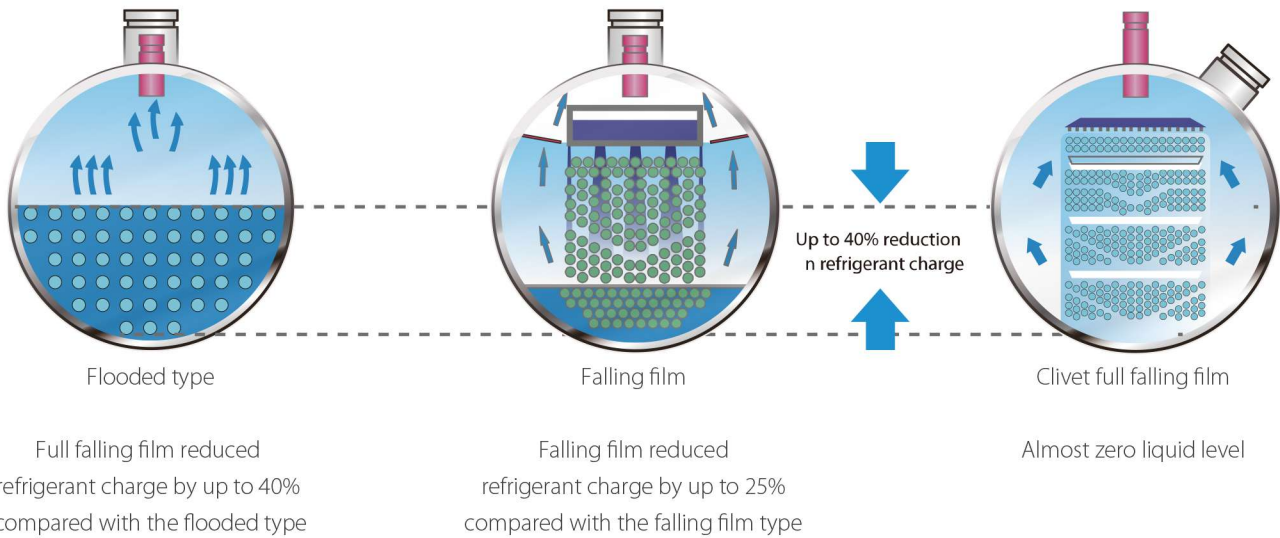
- ❖ Direct drive motor
- ❖ Mechanical loss is 20% compare to gear
- ❖ Drive chiller
- ❖ Quiter running compressor
- ❖ Excellent Efficiency: COP up to 6.58, IPLV up to 10.70



- ❖ High Reliability compressor:
VFD back-to-back direct-drive centrifugal
- ❖ Lower Noise: low to 73-78 dB(A)
- ❖ Double longer Warranty
- ❖ Green: R134a & Full falling film tech. reduce up to 40% refrigerant charge

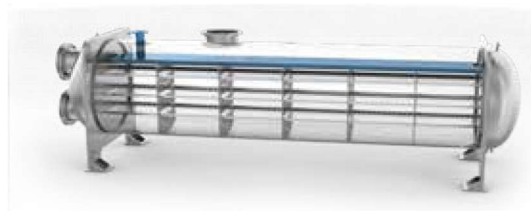
Leading Technology

FULL FALLING FILM EVAPORATION TECHNOLOGY



Patent No: 201210414053.9; 201220552298.

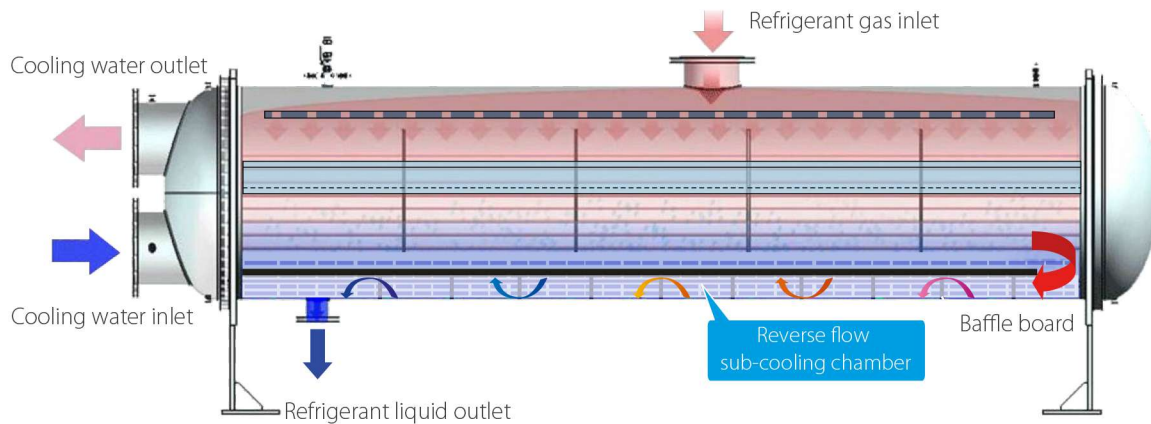
- ❖ First created the full falling film evaporator and adopted spray technology to achieve film evaporation on the surface of the heat exchange tube, greatly increasing overall heat transfer efficiency and reducing refrigerant charge by up to 40%
- ❖ The patented refrigerant distributor can improve the homogeneity of the liquid to avoid local drying, fully showcasing the performance of the heat exchange tube and increasing unit efficiency
- ❖ Patented refrigerant distributor technology
- ❖ Reduced shell diameter
- ❖ Improved oil return and heat transfer ratio 15%



Leading Technology

CONDENSER WITH INTEGRAL SUB-COOLER

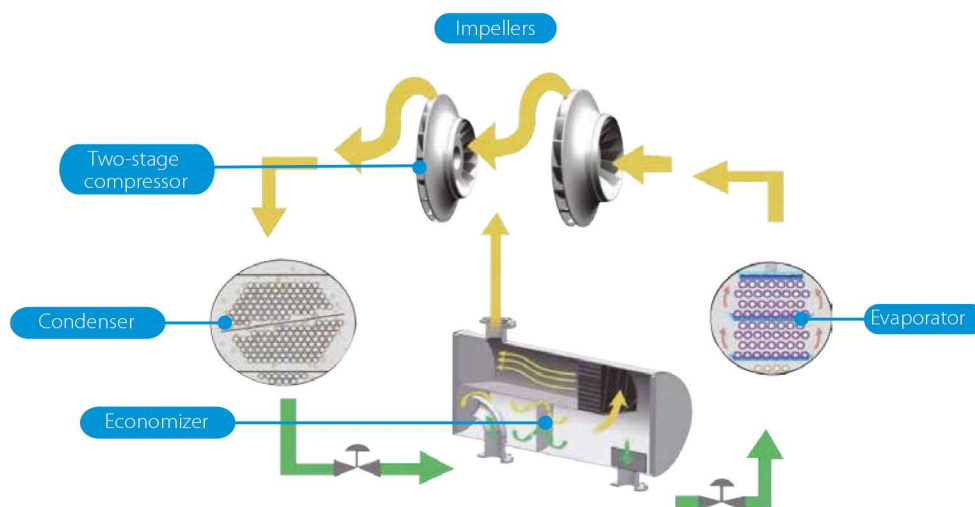
- ❖ The highly efficient heat-exchanger and optimized structure enhance heat exchange. The design of a reverse flow sub-cooling chamber with multiple turbulence increases the sub-cooling level and improves performance
- ❖ High efficiency heat transfer tube



Economizer & Two Stage Compression

TWO-STAGE COMPRESSION

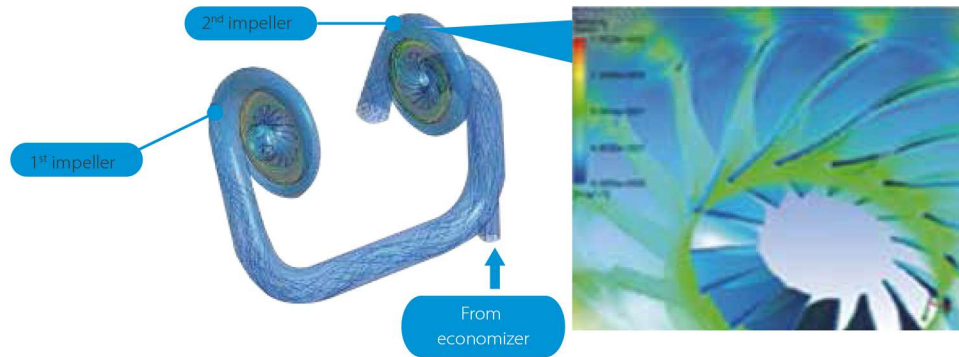
- ❖ 6% higher efficiency than single-stage compression
- ❖ Lower speed and higher reliability
- ❖ Unique three-stage separation economizer, reliable and effective



Energy Saving

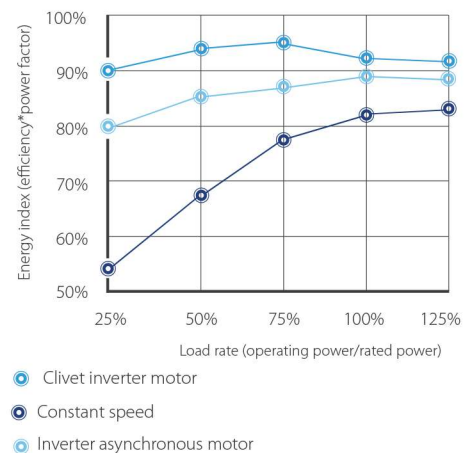
AERODYNAMIC COMPRESSOR DESIGN

- ❖ With 3D-flow closed and strongly backward-bladed impeller design, impeller efficiency is 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



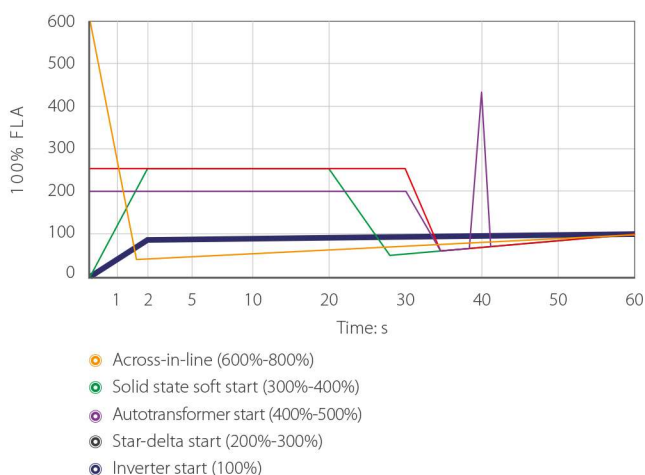
HIGH EFFICIENCY INVERTER MOTOR

- ❖ 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



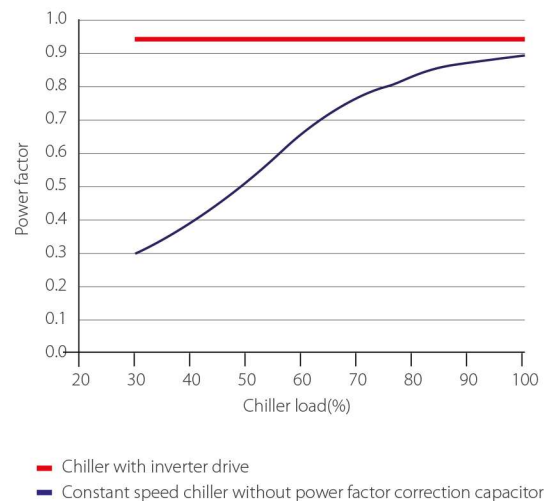
ZERO IN-RUSH CURRENT

- ❖ 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

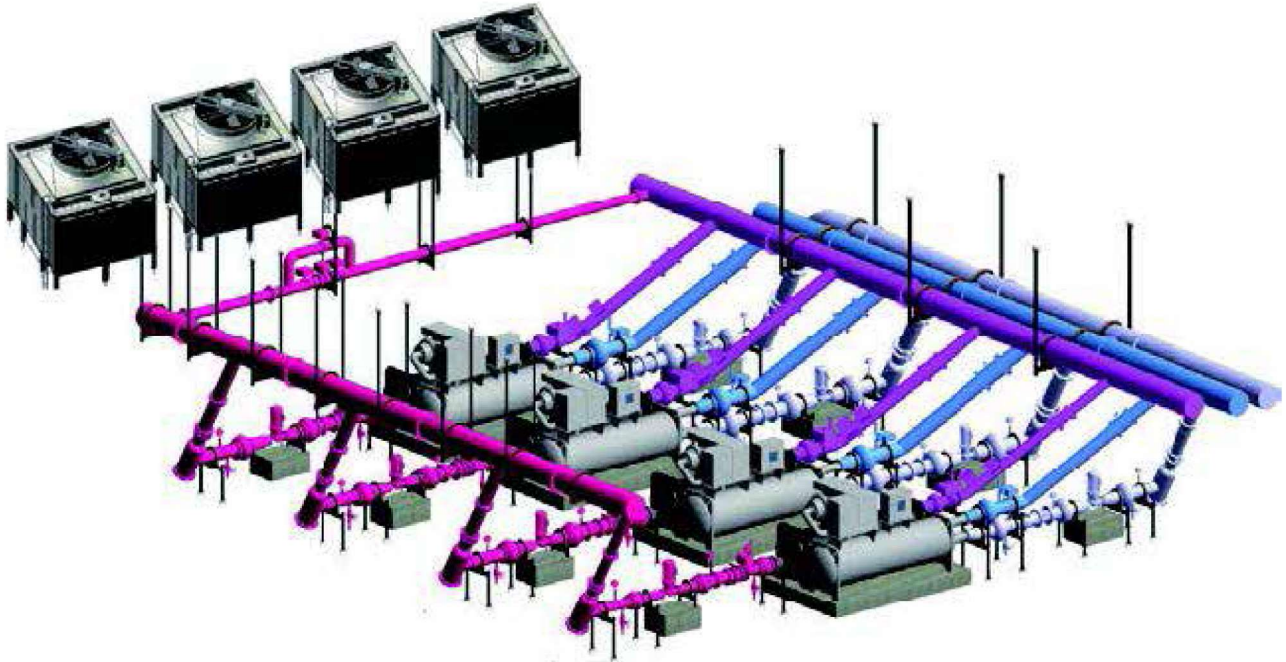


High Efficiency Chiller Plant Control

Optimal HVAC Design

❖ Optimized design of the super high efficiency chiller plant system

The super high efficiency chiller plant integration solution is a one stop system wide solution that connects design, construction, operation and maintenance. It uses equipment optimization, wind field and water way optimization and energy management to achieve energy conservation. The energy conservation is optimized through load reduction, load tracking, load cruising and optimization based on HVAC knowledge. As a result, it is expected to achieve energy saving rate of more than 40% and energy efficiency of more than 61%.



Examples of Midea super high efficiency air-conditioning system building information modeling (BIM)

❖ Re-evaluation of equipment parameters

The system intelligently simulates energy consumption and flow using BIM and equipment & pipeline parameters. It also provides a more accurate reference for the selection of equipment parameters using the simulation system platform.

❖ Sensor positioning

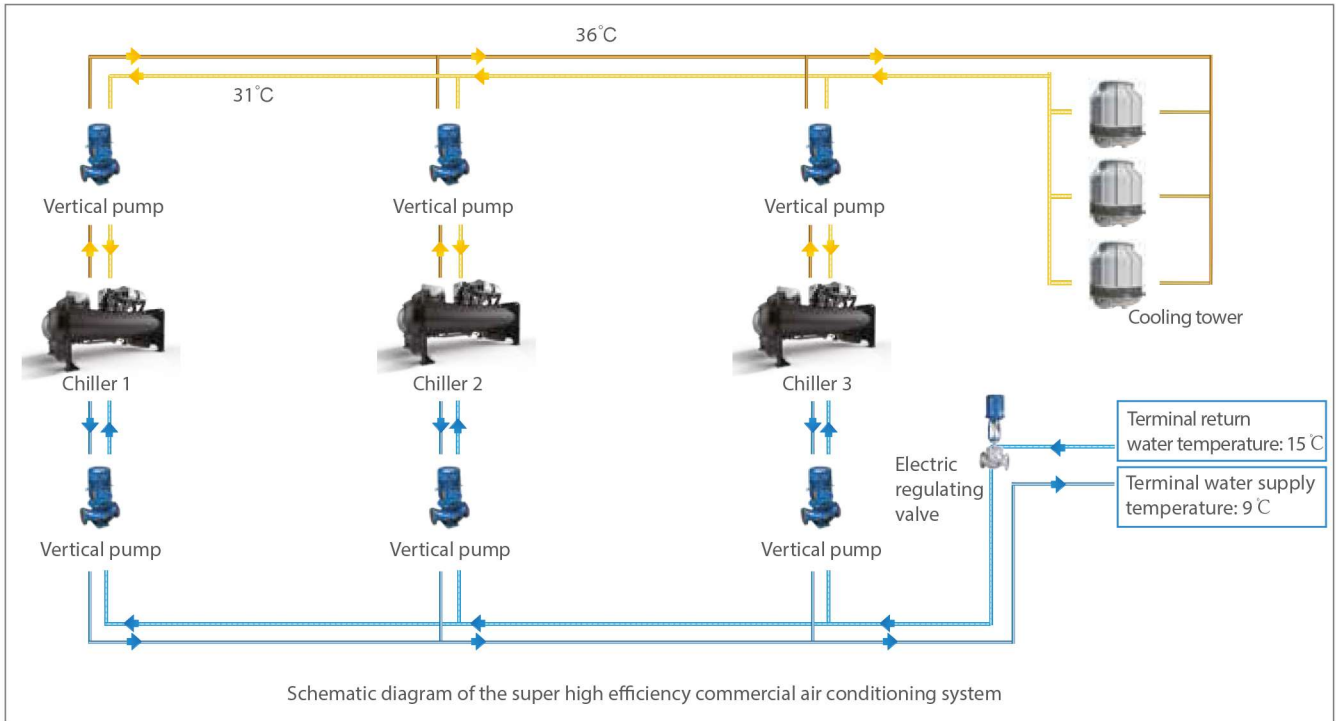
The system adopts BIM technology to accurately position the sensor to ensure the smooth installation of the sensor, thus guaranteeing that subsequent data collection is accurate.

❖ Year-round system load simulation analysis

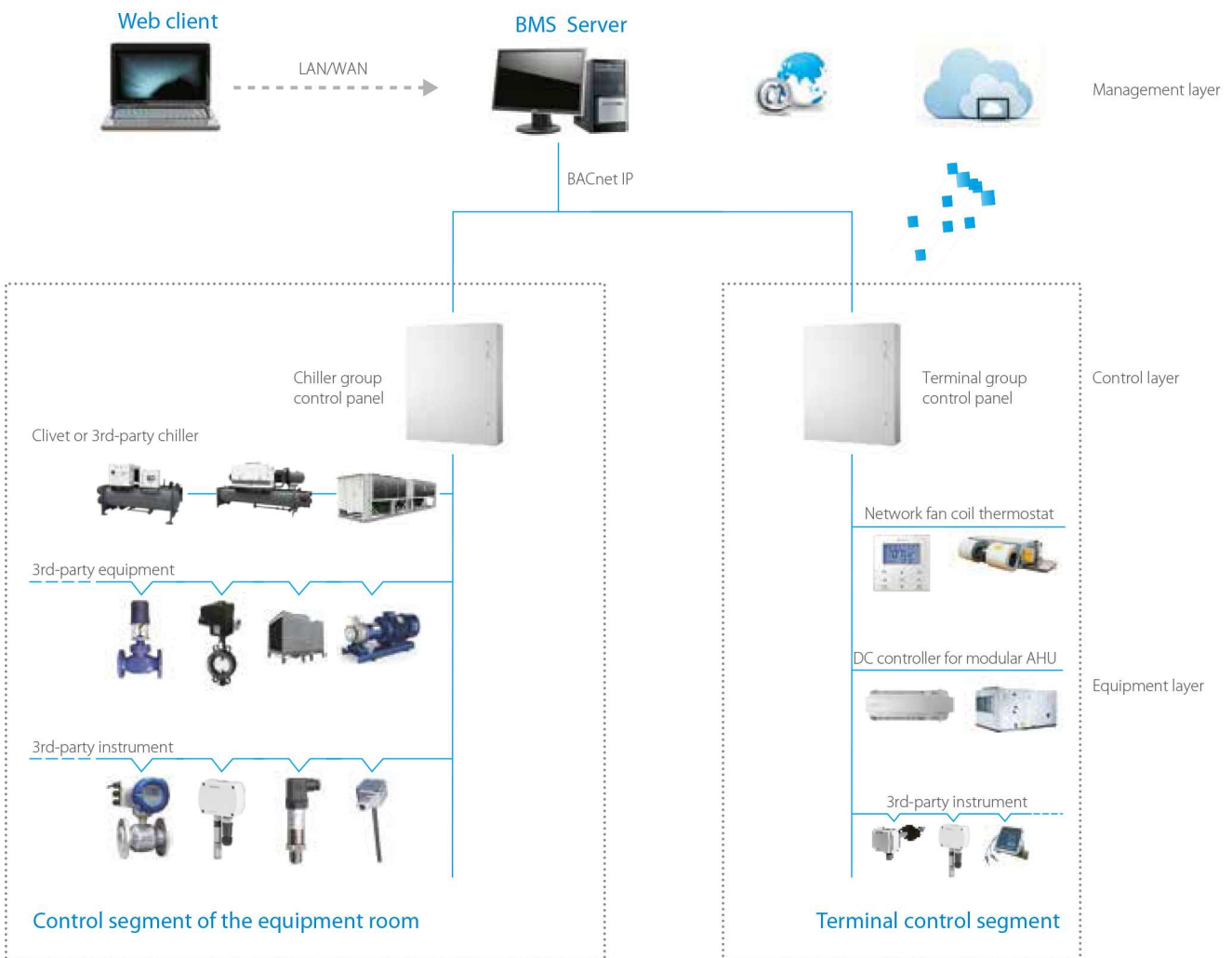
According to the building data and HVAC specifications, the air conditioning system is used to conduct simulated calculation of the hourly, daily and monthly building load to obtain the year-round (8760 hours) accurate cooling load, thus obtaining the detailed change rules of daily and annual building load.

❖ Optimal selection of air-conditioning equipment based on ne load calculation

The electromechanical equipment in the equipment room is designed with full frequency conversion, which allows the cold source to achieve high energy efficiency by improving the outlet water temperature of the chiller and reducing the condensate temperature of the chiller.



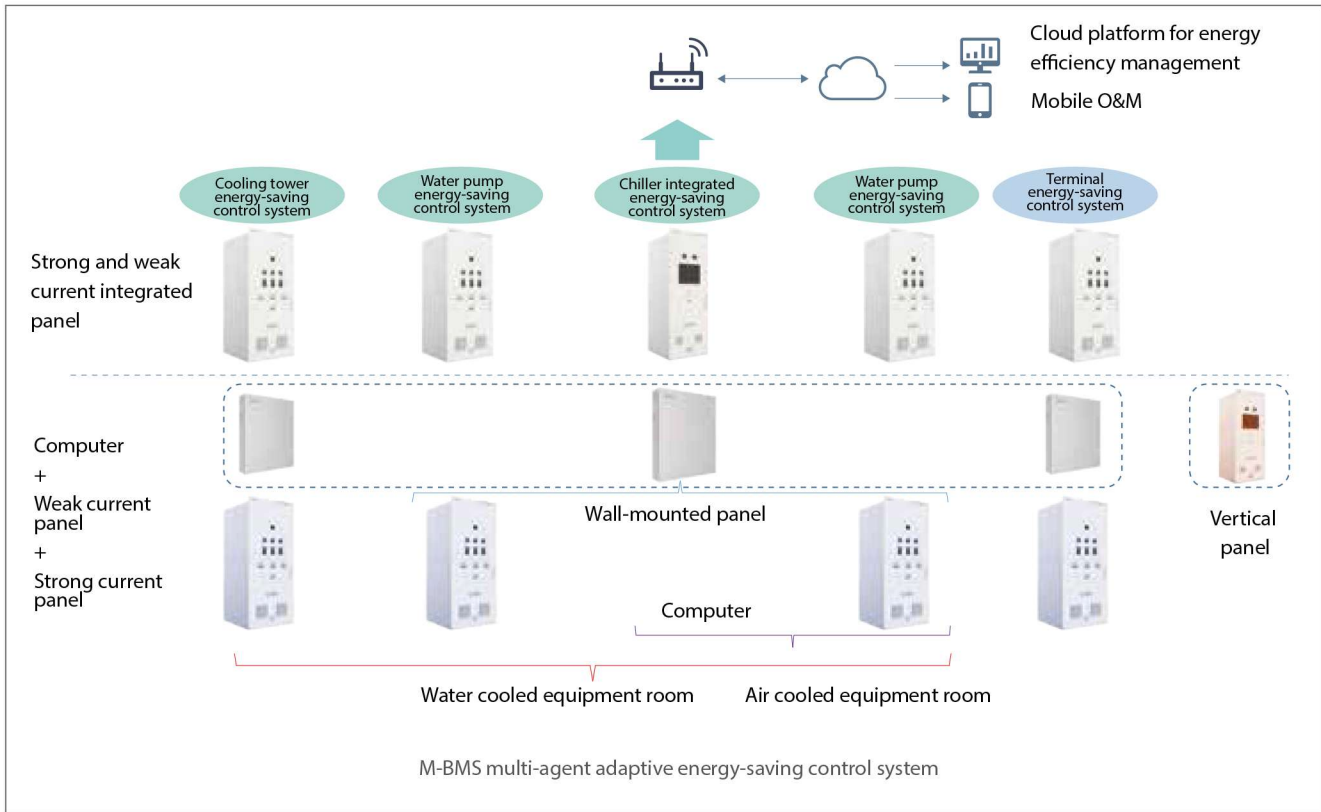
SYSTEM STRUCTURE



Optimized Control Design

❖ Fine monitoring and adaptation of M-BMS multi-agent adaptive energy-saving control system

M-BMS multi-agent adaptive energy-saving control system is composed of the chiller integrated energy-saving control system, pump energy-saving control system, cooling tower energy-saving control system, terminal energy-saving control system and other modules in a multi-agent adaptive manner.



M-BMS multi-agent adaptive energy-saving control system

Cooling capacity consumption optimization control - high-efficient heat transfer as required

- AHU energy saving optimization control
- AI combined control of air side and water side helps enhance the entire energy efficiency of the system
- Energy saving optimization control during transition seasons
- System energy consumption management and optimization
- System low-load control
- Schedule setting and Start/Stop Time Optimization (SSTO)

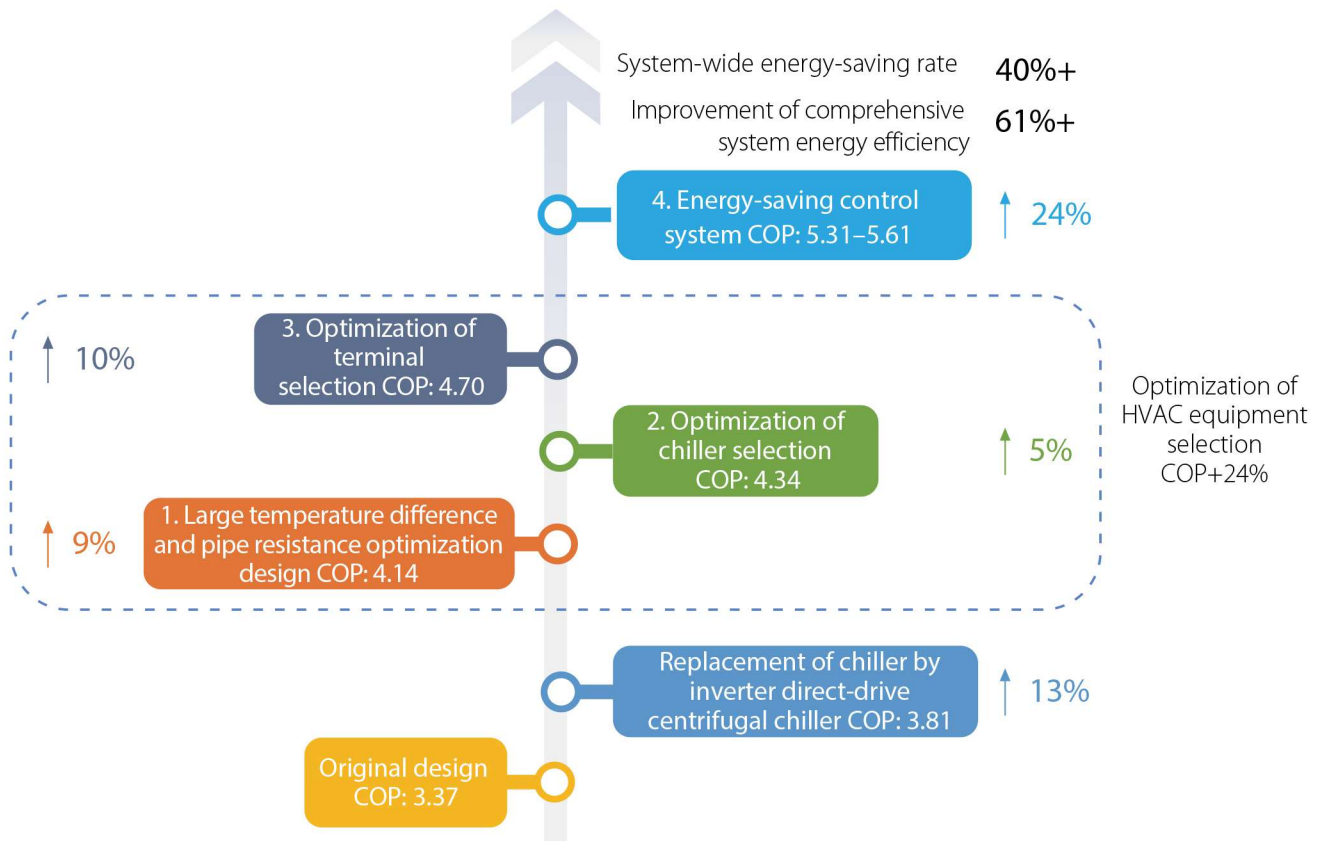
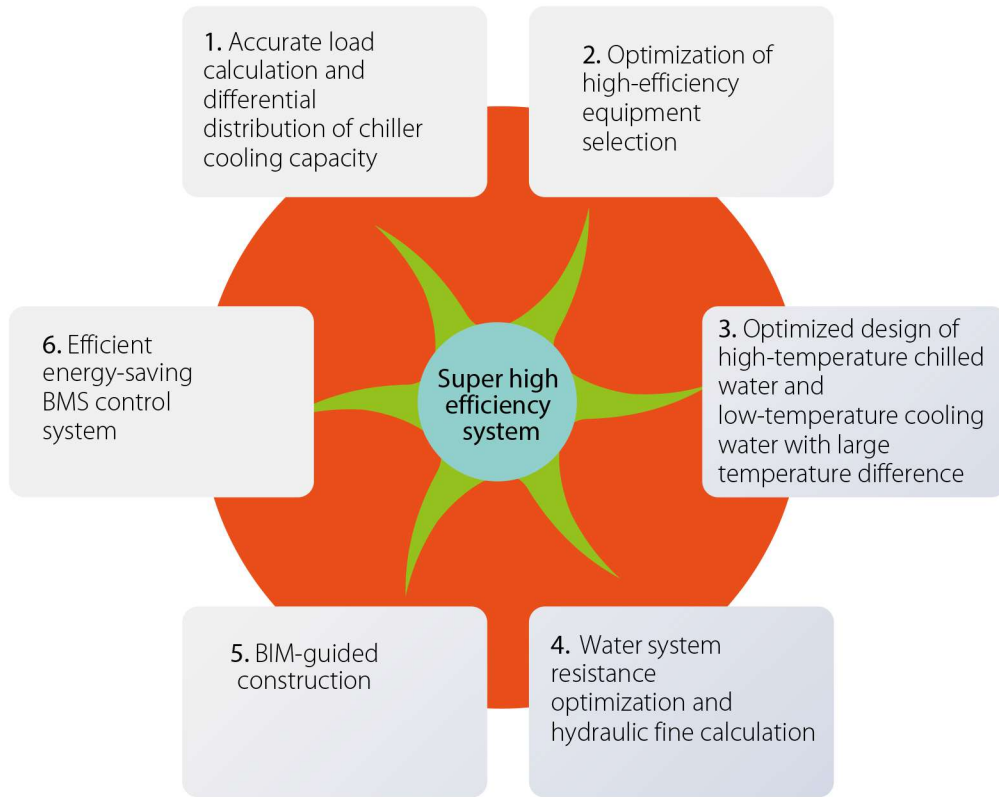
Cooling capacity production optimization control - optimal load point operation

- Automatic adding and subtracting of machines and prospective control
- Multi-unit load optimization allocation based on optimal efficiency
- Adaptive adjustment of outlet water temperature based on load cruise
- Achieving control of the cooling tower's minimum outlet water temperature
- Multi-agent adaptive energy-saving control
- Seamless control of chiller load regulation and group control

Cooling capacity conveyor chain optimization control - conveying the highest energy efficiency point

- Optimal chilled-water flow control based on load forecasting
- Preferred combination control of optimal pump efficiency
- Optimal energy-saving efficiency control of cooling water system
- Water valve & hydraulic balance control based on energy balance

❖ Super high efficiency system optimization service results



Specifications

Model		WCHT-CN	250.1ED	300.1ED	350.1ED	400.1ED	450.1ED	500.1ED	550.1ED
Cooling capacity	RT		250.0	300.0	350.0	400.0	450.0	500.0	550.0
	kW		879.0	1055	1231	1406	1582	1758	1934
	10 ⁴ kcal/h		75.59	90.71	105.8	121.0	136.1	151.2	166.3
Power input	kW		141.2	165.2	193.0	223.9	247.3	276.6	310.1
COP	W/W		6.224	6.385	6.376	6.282	6.399	6.356	6.237
IPLV	W/W		9.341	9.591	9.737	10.46	10.61	10.59	10.69
Motor configuration power	kW		200.0	200.0	240.0	280.0	280.0	315.0	350.0
Rated current	A		230.7	269.9	315.3	365.7	403.9	451.9	506.6
Max. operating current	A		262.4	305.4	358.9	416.1	457.5	507.9	565.8
Evaporator	Water flow	m ³ /h	135.8	163.0	190.1	217.3	244.4	271.6	298.8
	Pressure drop	kPa	43.3	43.2	43.6	42.9	43.2	42.4	44.1
	Water pipe connection	mm	DN200	DN200	DN200	DN250	DN250	DN250	DN250
Condenser	Water flow	m ³ /h	169.7	202.9	236.8	271.1	304.2	338.3	373.1
	Pressure drop	kPa	44.7	45.7	45.9	44.8	44.6	46.5	46.8
	Water pipe connection	mm	DN200	DN200	DN200	DN250	DN250	DN250	DN250
Unit dimensions	Length	mm	3650	3650	3650	3650	3650	3650	3650
	Width	mm	1940	1940	1940	2000	2000	2000	2000
	Height	mm	2150	2150	2150	2150	2150	2150	2150
Shipping weight	kg		4650	4800	4950	5650	5800	5950	6100
Running weight	kg		5580	5780	5980	6730	6930	7130	7330

Note:

1. Performance and efficiency are based on AHRI 550/590-2018.

Evaporator conditions: water inlet=54°F (12.22°C), water outlet=44°F (6.67°C), fouling factor=0.00010h-ft²-°F/Btu (0.0176m². °C/kW);

Condenser conditions: water inlet=85°F (29.44°C), water outlet=94.3°F (34.61°C), fouling factor=0.00025h-ft²-°F/Btu (0.0440m². °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. The model in the selection software is WCHT-CN***ED#, # is the production serial number and the actual product shall prevail.

4. As a result of the continuous improvement of the product, the above parameters may be changed, please refer to the software selection and the actual product.

Model		WCHT-CN	600.1ED	650.1ED	700.1ED	750.1ED	800.1ED	850.1ED
Cooling capacity		RT	600.0	650.0	700.0	750.0	800.0	850.0
		kW	2110	2285	2461	2637	2813	2989
		10 ⁴ kcal/h	181.4	196.6	211.7	226.8	241.9	257.0
Power input		kW	331.3	357.2	378.0	407.5	442.1	460.7
COP		W/W	6.367	6.397	6.511	6.471	6.362	6.488
IPLV		W/W	9.315	9.628	9.991	10.16	10.19	10.15
Motor configuration power		kW	400	400	450	450	500	560
Rated current		A	541.3	583.6	617.6	665.7	722.3	752.6
Max. operating current		A	613.1	658.9	696.0	745.8	801.6	850.4
Evaporator	Water flow	m ³ /h	325.9	353.1	380.3	407.4	434.6	461.7
	Pressure drop	kPa	53.8	52.2	58.6	56.1	60.1	56.2
	Water pipe connection	mm	DN300	DN300	DN300	DN300	DN300	DN300
Condenser	Water flow	m ³ /h	404.3	437.9	470.6	504.7	539.7	572.2
	Pressure drop	kPa	51.4	54.5	51.0	55.1	54.7	55.2
	Water pipe connection	mm	DN300	DN300	DN300	DN300	DN300	DN300
Unit dimensions	Length	mm	4700	4700	4700	4700	4700	4750
	Width	mm	1950	1950	1950	1950	1950	2150
	Height	mm	2750	2750	2750	2750	2750	2900
Shipping weight		kg	9060	9120	9330	9410	9490	10665
Running weight		kg	10700	10790	11080	11210	11330	12885

Model		WCHT-CN	900.1ED	950.1ED	1000.1ED	1100.1ED	1200.1ED	1300.1ED
Cooling capacity		RT	900.0	950.0	1000	1100	1200	1300
		kW	3164	3340	3516	3868	4219	4571
		10 ⁴ kcal/h	272.2	287.3	302.4	332.6	362.9	393.1
Power input		kW	482.2	513.3	538.8	591.8	641.7	698.0
COP		W/W	6.563	6.507	6.525	6.535	6.575	6.549
IPLV		W/W	10.37	10.39	10.55	10.35	10.57	10.69
Motor configuration power		kW	560	560	630	700	700	800
Rated current		A	787.7	838.6	880.3	966.9	1048	1140
Max. operating current		A	888.6	945.5	991.7	1089	1181	1282
Evaporator	Water flow	m ³ /h	488.9	516.1	543.2	597.5	651.9	706.2
	Pressure drop	kPa	62.4	54.5	58.4	57.0	57.0	56.0
	Water pipe connection	mm	DN300	DN300	DN300	DN300	DN300	DN300
Condenser	Water flow	m ³ /h	605.2	639.8	673.3	740.7	807.5	875.1
	Pressure drop	kPa	58.9	53.4	55.6	52.6	53.4	58.0
	Water pipe connection	mm	DN300	DN300	DN300	DN300	DN300	DN300
Unit dimensions	Length	mm	4750	4750	4750	4800	4800	4800
	Width	mm	2150	2150	2150	2260	2260	2260
	Height	mm	2900	2900	2900	3050	3050	3050
Shipping weight		kg	10690	11050	11050	13320	13520	13650
Running weight		kg	12915	13450	13450	16180	16495	16710

Note:

1. Performance and efficiency are based on AHRI 550/590-2018.

Evaporator conditions: water inlet=54°F (12.22°C), water outlet=44°F (6.67°C), fouling factor=0.00010h-ft²-°F/Btu (0.0176m². °C/kW);

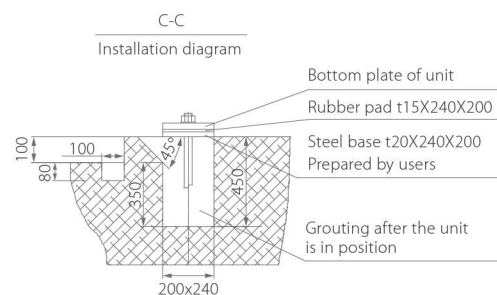
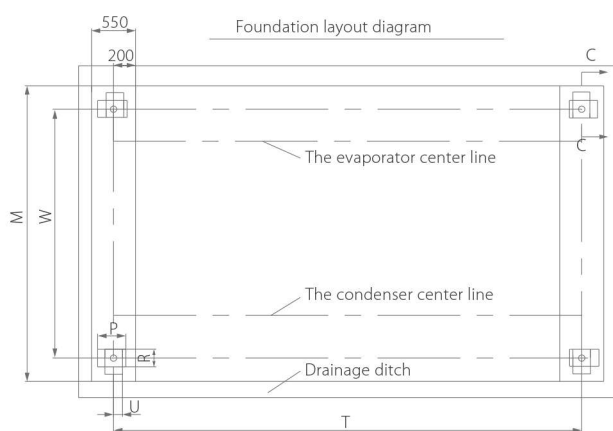
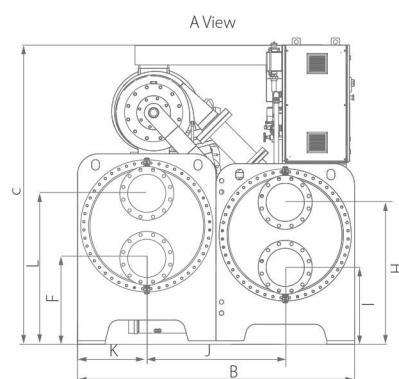
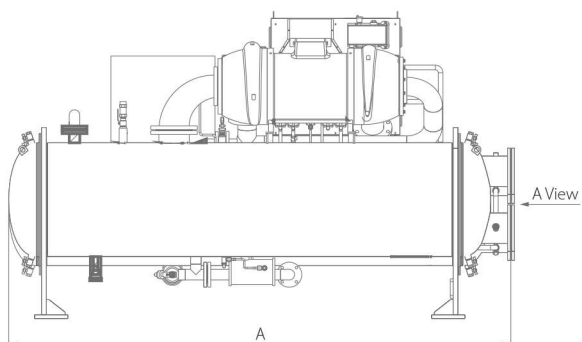
Condenser conditions: water inlet=85°F (29.44°C), water outlet=94.3°F (34.61°C), fouling factor=0.00025h-ft²-°F/Btu (0.0440m². °C/kW).

2. The design's max working pressure for both the evaporator and condenser are 1.0MPa, but higher pressure can be customized if required.

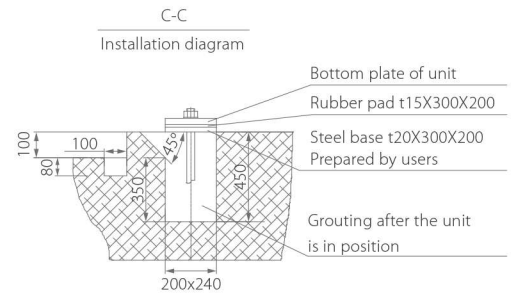
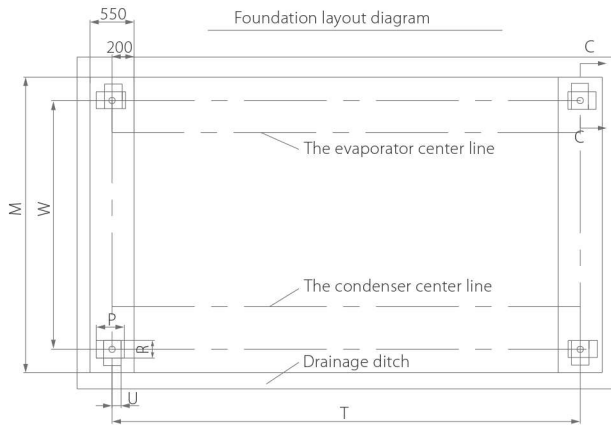
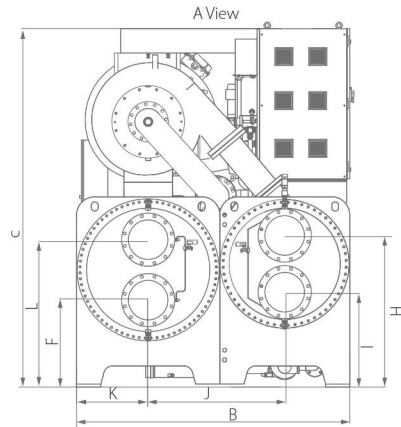
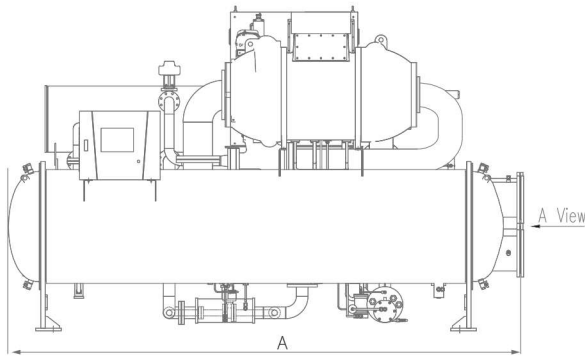
3. The model in the selection software is WCHT-CN***ED#. # is the production serial number and the actual product shall prevail.

4. As a result of the continuous improvement of the product, the above parameters may be changed, please refer to the software selection and the actual product.

Dimensions



Model	Dimensions			Support						Pipe locate position					
	Length (A)	Width (B)	Height (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
WCHT-CN250.1ED	3650	1940	2150	2240	1740	240	200	100	2780	670	1040	485	605	975	970
WCHT-CN300.1ED															
WCHT-CN350.1ED															
WCHT-CN400.1ED	3650	2000	2150	2300	1800	240	200	100	2780	620	1090	500	555	1025	1000
WCHT-CN450.1ED															
WCHT-CN500.1ED															
WCHT-CN550.1ED															



Model	Dimensions			Support						Pipe locate position					
	Length (A)	Width (B)	Height (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
WCHT-CN600.1ED WCHT-CN650.1ED WCHT-CN700.1ED WCHT-CN750.1ED WCHT-CN800.1ED	4700	1950	2750	2550	1750	240	200	200	3780	635	1095	500	683	1143	975
WCHT-CN850.1ED WCHT-CN900.1ED WCHT-CN950.1ED WCHT-CN1000.1ED	4750	2150	2900	2750	1950	240	200	200	3780	710	1180	550	765	1225	1075
WCHT-CN1100.1ED WCHT-CN1200.1ED WCHT-CN1300.1ED	4800	2260	3050	2860	2060	240	200	200	3780	720	1220	593	785	1255	1130

Space layout



Model	Maintenance space (mm)			
	T	Y	S	Z
WCHT-CN250.1ED	1000	1200	1200	3200
WCHT-CN300.1ED				
WCHT-CN350.1ED				
WCHT-CN400.1ED				
WCHT-CN450.1ED				
WCHT-CN500.1ED				
WCHT-CN550.1ED				
WCHT-CN600.1ED	1000	1200	1200	4500
WCHT-CN650.1ED				
WCHT-CN700.1ED				
WCHT-CN750.1ED				
WCHT-CN800.1ED				
WCHT-CN850.1ED				
WCHT-CN900.1ED				
WCHT-CN950.1ED				
WCHT-CN1000.1ED				
WCHT-CN1100.1ED				
WCHT-CN1200.1ED				
WCHT-CN1300.1ED				

Note: Z is the tube removal space and both ends can be selected.

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FORM GROUP COMPANIES

FORM Group Companies, established in 1965, manufactures, imports, sells and services Air Conditioning and Industrial systems equipment, to improve the life and manufacturing quality of people and products. FORM Group Companies, offering high energy efficiency and environment friendly system solutions, is one of the leading companies in its field, respecting the environment and the ethical values.



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