

Clivet-2003-4C1911



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A Group Company of



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Commercial Air Conditioners 2020

A photograph of a modern, curved skyscraper at night, likely the 'The Waterfront' in Beijing. In the foreground, a large industrial air-cooled chiller unit is positioned on a metal platform. The chiller is a rectangular unit with a large fan coil unit on top, a control cabinet to the left, and a base frame. The background shows the illuminated windows of the skyscraper and other city lights.

Air Cooled Chillers

Air cooled screw chiller

Large capacity air cooled scroll chiller

Always ready for the Future

Clivet. Change things

40
agencies in Italy

630
employees in Italy
and abroad

50.000 m²
of plants in Feltre,
Belluno - Italy

6
branches: Great Britain, Germany, Spain,
Russia, UAE, India

75
countries we export to

2015
Clivet Live is born

140
service centres

2016
A Group Company of
Midea

FORTUNE GLOBAL 500
Midea Group #323 in 2018
35.794 \$M
Midea turnover



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.

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

Introduction

Clivet air cooled screw chiller is designed to meet current and future requirements in terms of reliability, energy efficiency and intelligent control. We use the best technologies available today: twin-rotor screw compressor is ideally matched with the EXV, evaporator and condenser are optimally configured for superior heat transfer and unit efficiency. It is ideal for schools, hospitals, shopping malls, office buildings as well as factories and manufacturing plants.

Higher living standards means more people want solutions for cooling in summer and heating in winter. Air cooled heat pump unit is an excellent choice for meeting these requirements. However, due to technology bottlenecks, the heating effect in winter is limited by ambient temperature. Meanwhile, frequent shutdowns make users uncomfortable when switching between heating and cooling because of defrosting.

Clivet large capacity air cooled scroll chiller uses clean energy to produce heat instead of traditional coal-fired boilers. The wider range of ambient temperature, strong heating effect at low temperatures in winter, intelligent defrosting, and small outlet water temperature fluctuations heat cold areas for greater comfort. The green R410A refrigerant and low operating noise minimize environmental impact. The product features a modular design for seamless connections and reduced installation space, bringing more benefits to customers.



Product lineup

Series	Capacity (kW)	330	380	400	440	500	535	600	720	760	900	1000	1200	1420
Air cooled screw chiller	380V-3Ph-50Hz (T1)													
	460V-3Ph-60Hz (T1)													
	380V-3Ph-50Hz (T3)													
	380V-3Ph-60Hz (T3)													
Large capacity air cooled scroll chiller	380V-3Ph-50Hz (Heat pump & Cooling only)													
	460V-3Ph-60Hz (Cooling only)													

T1: normal condition; T3: tropical condition

Index

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Reference projects	63

Air cooled screw chiller

Features
Specifications
Electrical data
Water pressure drop
Dimension
Options
Installation
Typical piping system
Selection software



Features

Environmental responsibility



- ❖ A more efficient chiller means less power consumption, which reduces greenhouse gas (CO₂) emissions.
- ❖ R134a friendly refrigerant has zero ozone-depletion potential.
- ❖ High efficiency, world class, sustainable and reliable performance.

Lowest total cost of ownership

- ❖ Reliability, low risk of uncomfortable downtime.
- ❖ The best parts, Bitzer compressor, Danfoss EXV and Schneider electric.



- ❖ World-class testing facilities ensure performance and reliability.
- ❖ Each unit was extensively tested to verify its operational reliability and to ensure a smooth startup.
- ❖ Serviceability, low maintenance costs.

Silent operation

- ❖ Larger dimension impellers reduce speed leading to less noise.
- ❖ The lower ambient temperature, the lower fan air flow, then reduce noise.
- ❖ Intelligent control logic balances the performance and working fan numbers to control noise and power consumption.
- ❖ Super low-noise model is optional.

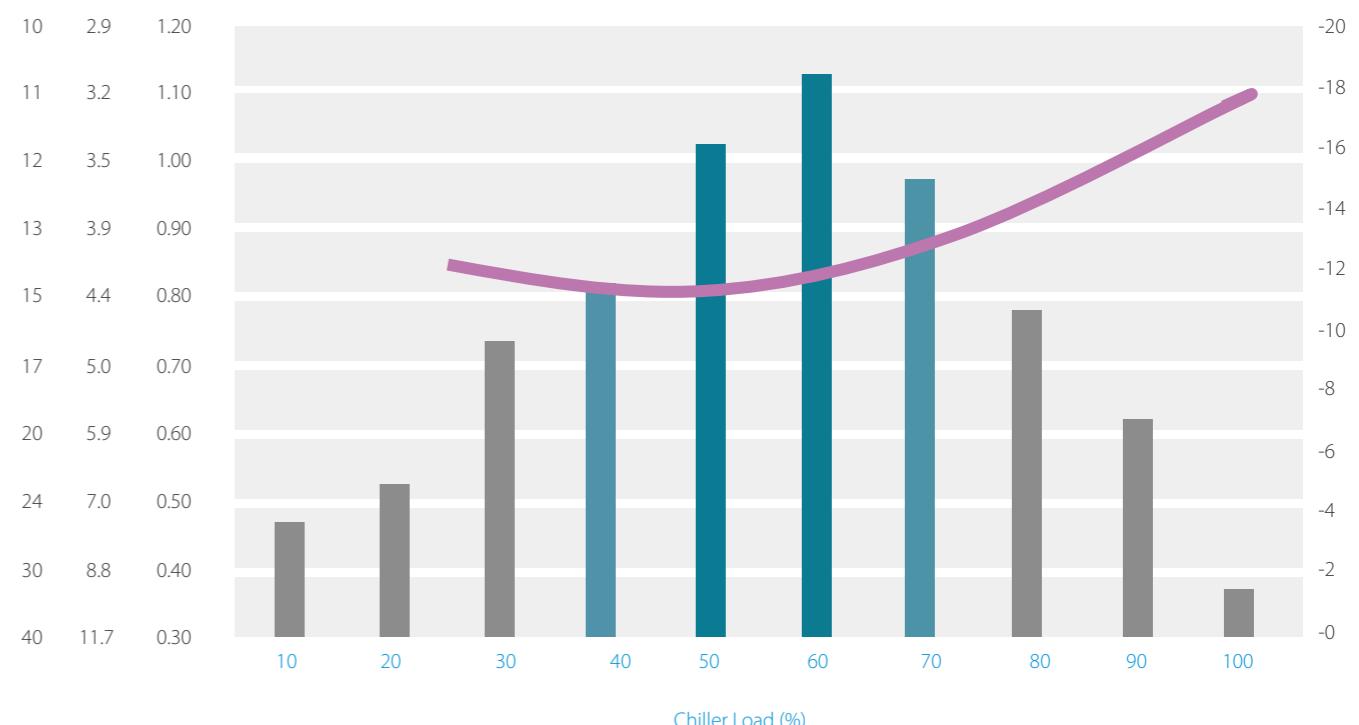


Operating cost savings

Better IPLV:

- ❖ Following the AHRI 550/590 calculation, 99% of operating hours are not at full load.
- ❖ The COP was optimized for 50% ~ 75% part load conditions.
- ❖ Larger ΔT of cooler reduces HVAC system running cost.

EER COP kW/Ton



Design flexibility

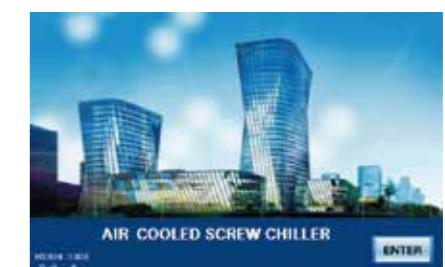
- ❖ Modular design concept, max. 8 units can be combined to meet different capacity requirements.
- ❖ Possible to increase capacity in the future expansion.
- ❖ Standard module for flexible stock and fast delivery.
- ❖ Low initial investment and maintenance cost.

Easy and fast installation

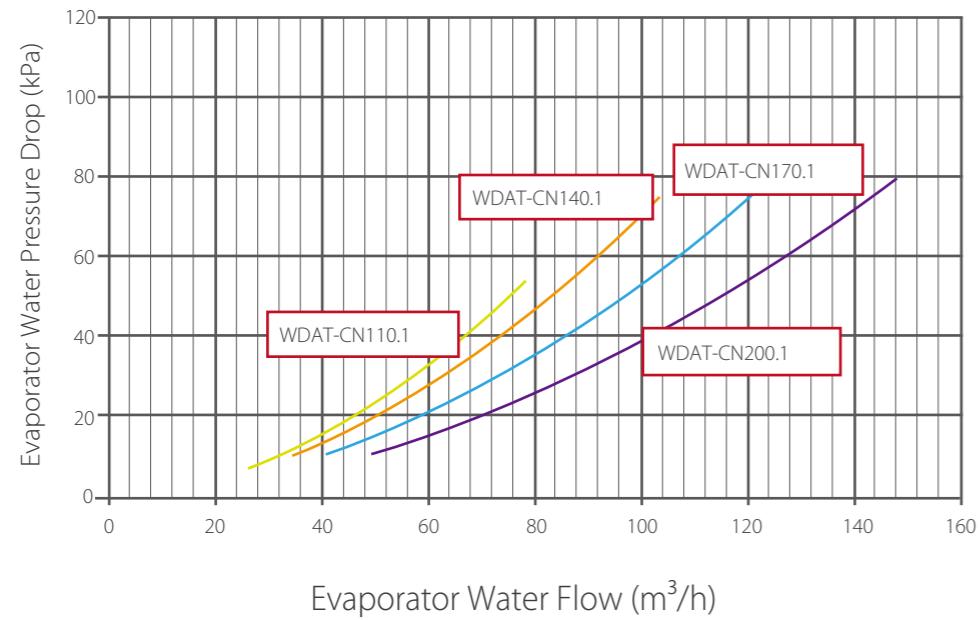
- ❖ Compact size and module design save transportation, lifting and installation cost.
- ❖ The unit can be placed in service after being connected to power supply and water supply during field installation.

User-friendly touch screen

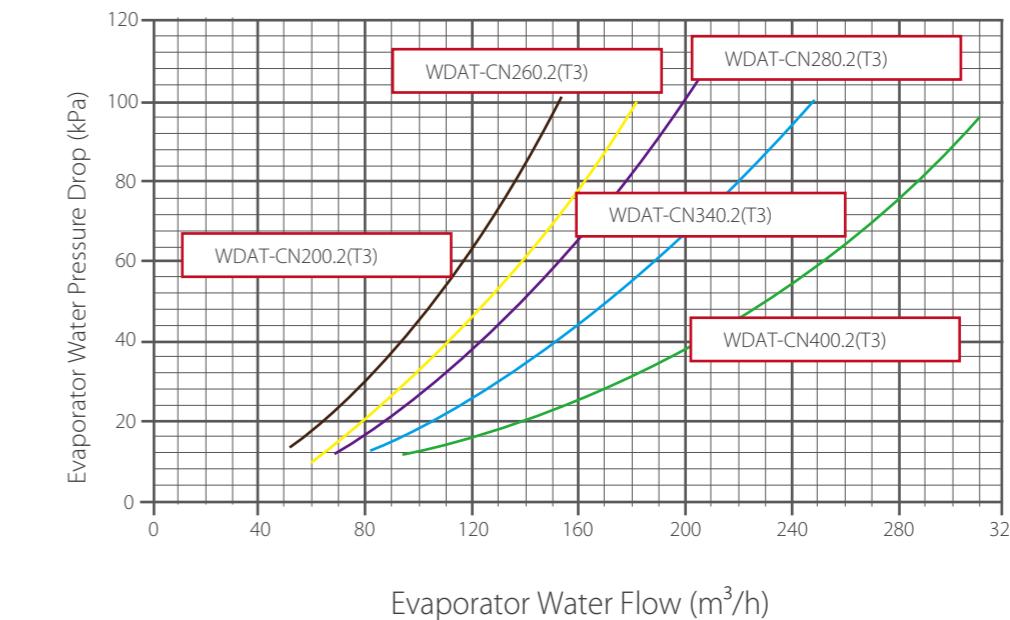
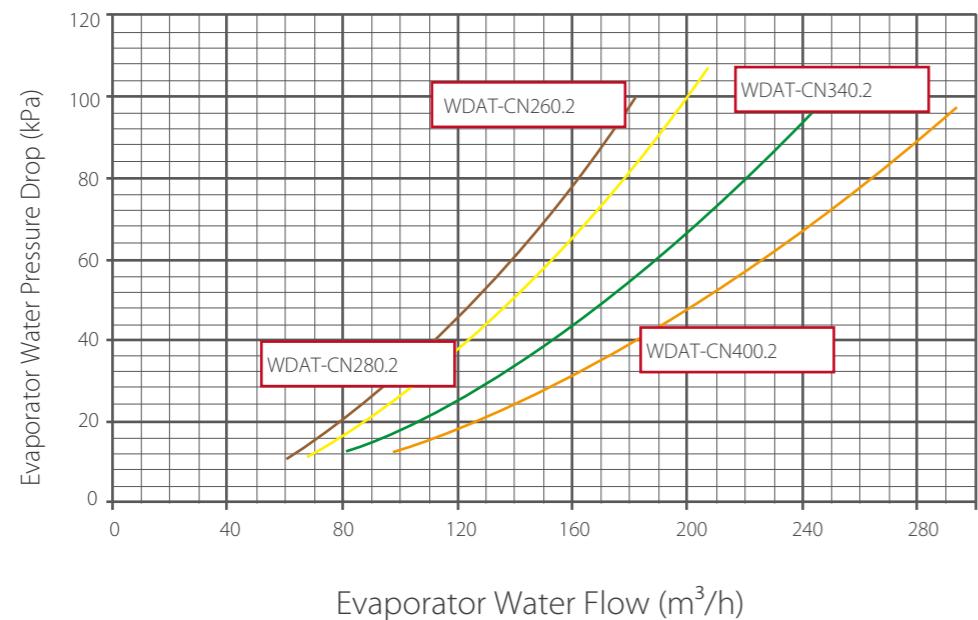
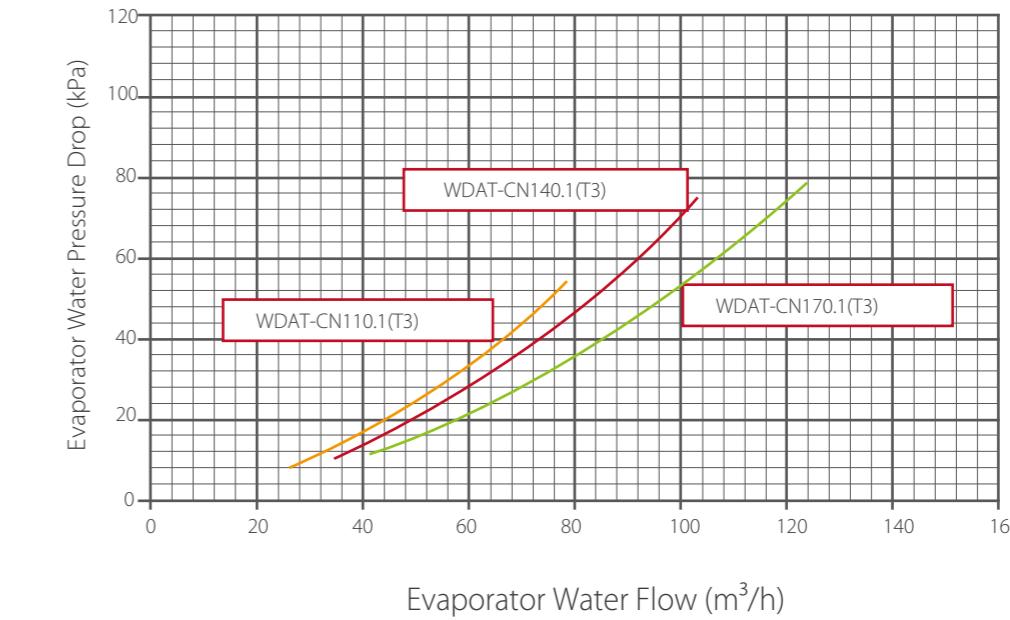
- ❖ 7 inch true color touch screen, easy operation.
- ❖ Operation status display.
- ❖ Weekly operation scheduling.
- ❖ Power-down memory function.
- ❖ Safety protection.



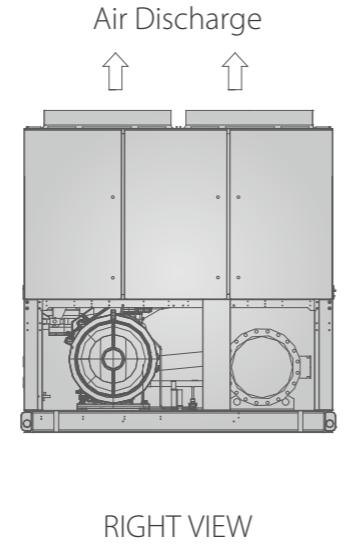
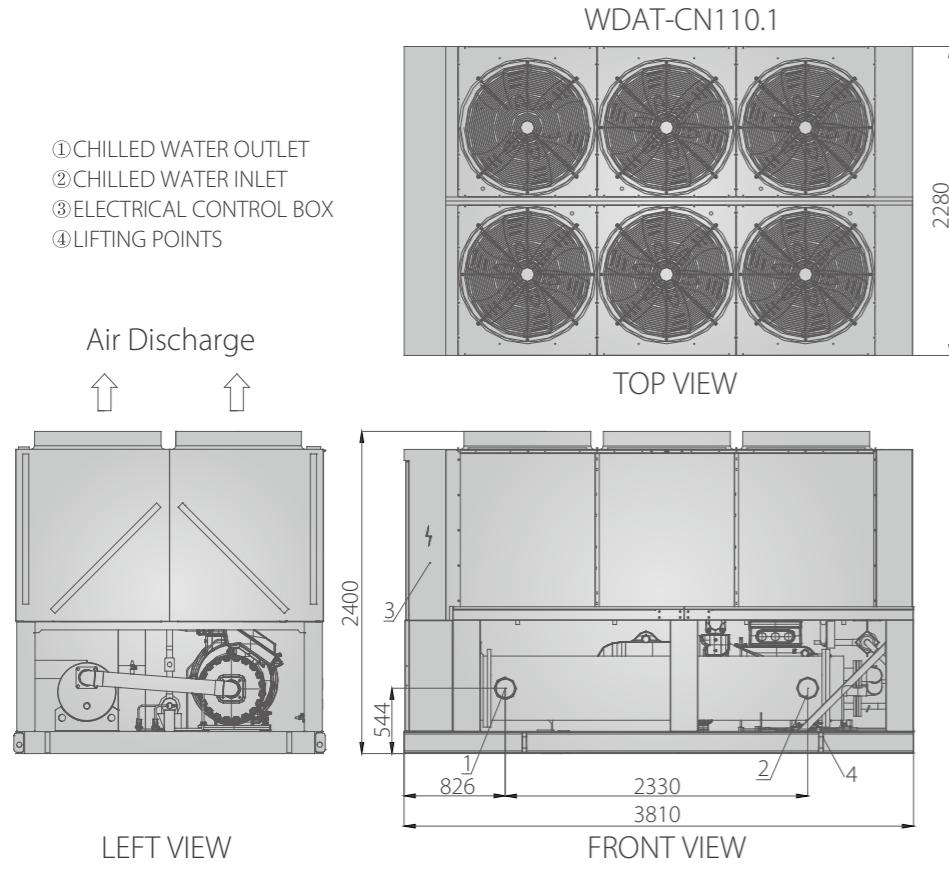
Water pressure drop (T1)



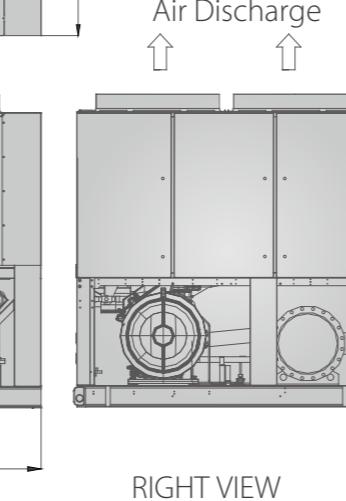
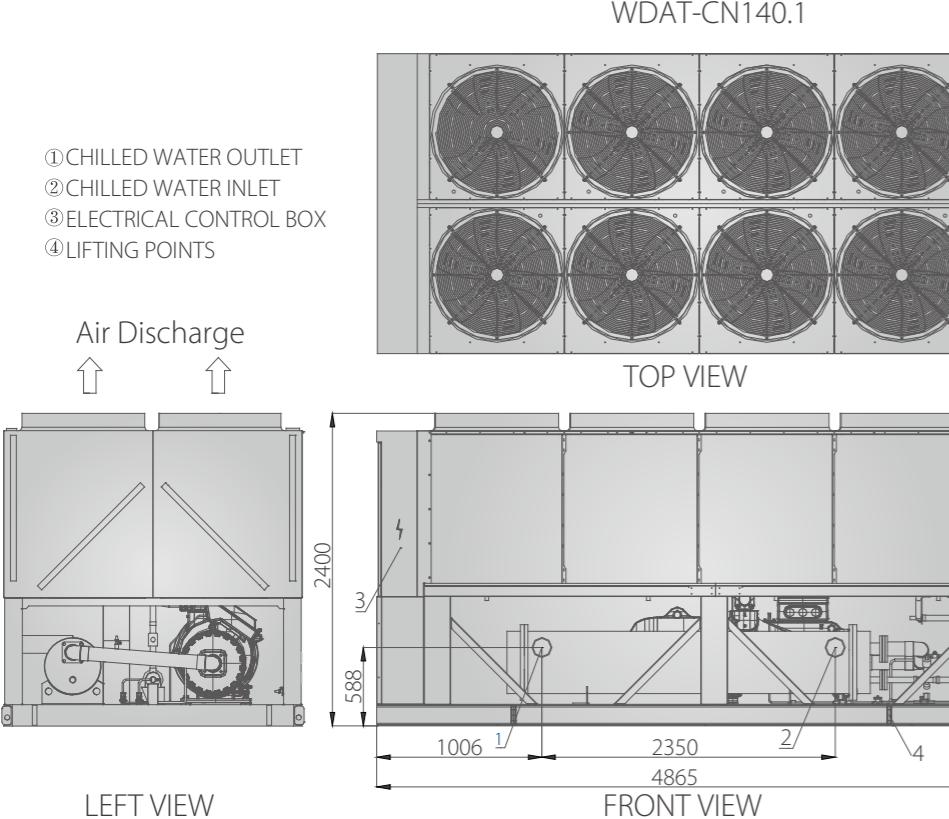
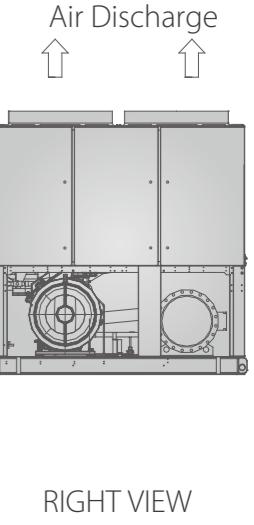
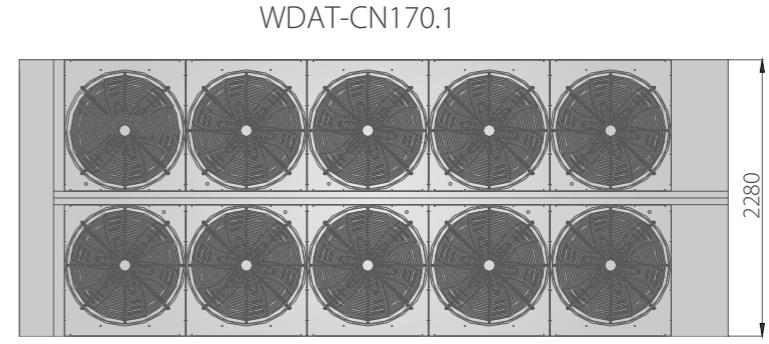
Water pressure drop (T3)



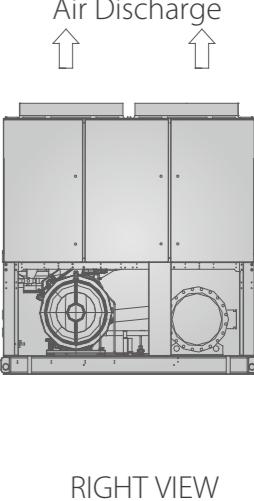
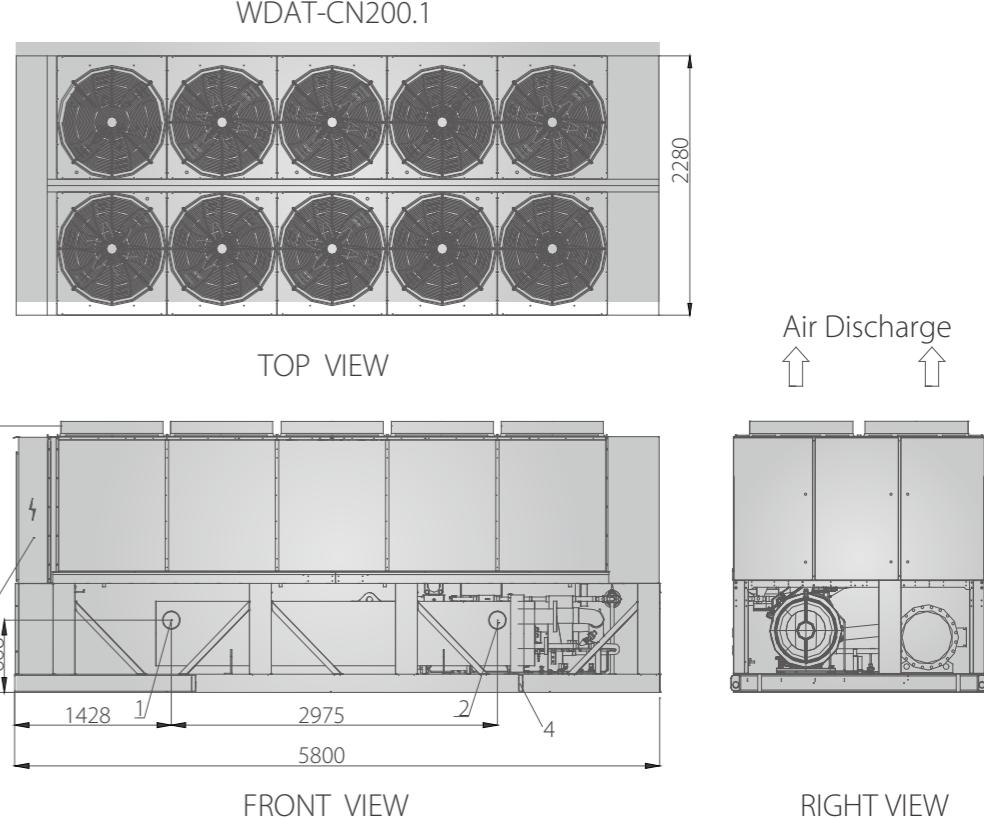
Dimension (T1)



- ① CHILLED WATER OUTLET
- ② CHILLED WATER INLET
- ③ ELECTRICAL CONTROL BOX
- ④ LIFTING POINTS

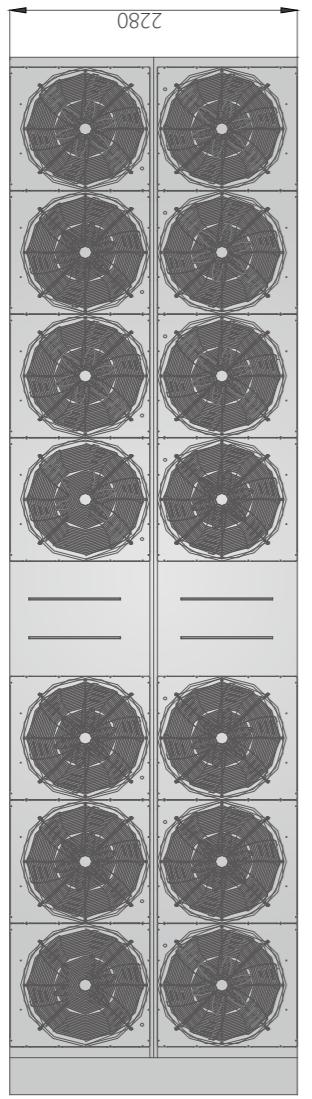


- ① CHILLED WATER OUTLET
- ② CHILLED WATER INLET
- ③ ELECTRICAL CONTROL BOX
- ④ LIFTING POINTS

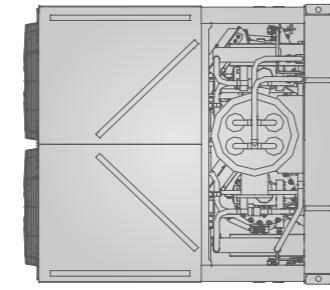


- ① CHILLED WATER INLET
- ② CHILLED WATER OUTLET
- ③ ELECTRICAL CONTROL BOX
- ④ LIFTING POINTS

WDAT-CN260.2



Air Discharge
↑ ↑



TOP VIEW

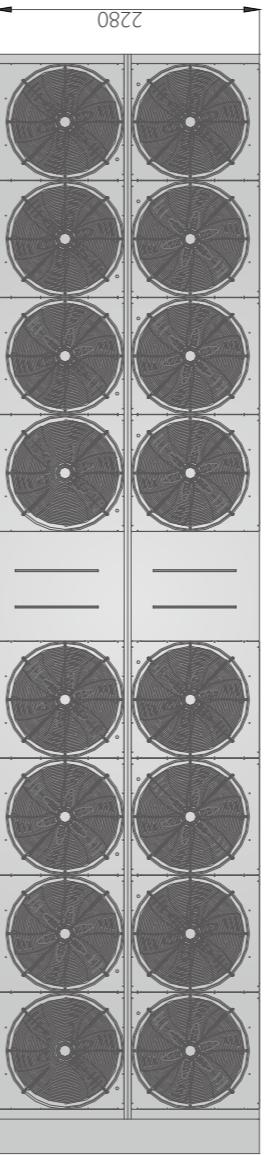
LEFT VIEW

FRONT VIEW

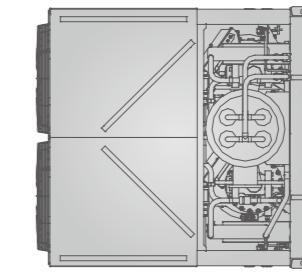
RIGHT VIEW

- ① CHILLED WATER INLET
- ② CHILLED WATER OUTLET
- ③ ELECTRICAL CONTROL BOX
- ④ LIFTING POINTS

WDAT-CN280.2



Air Discharge
↑ ↑



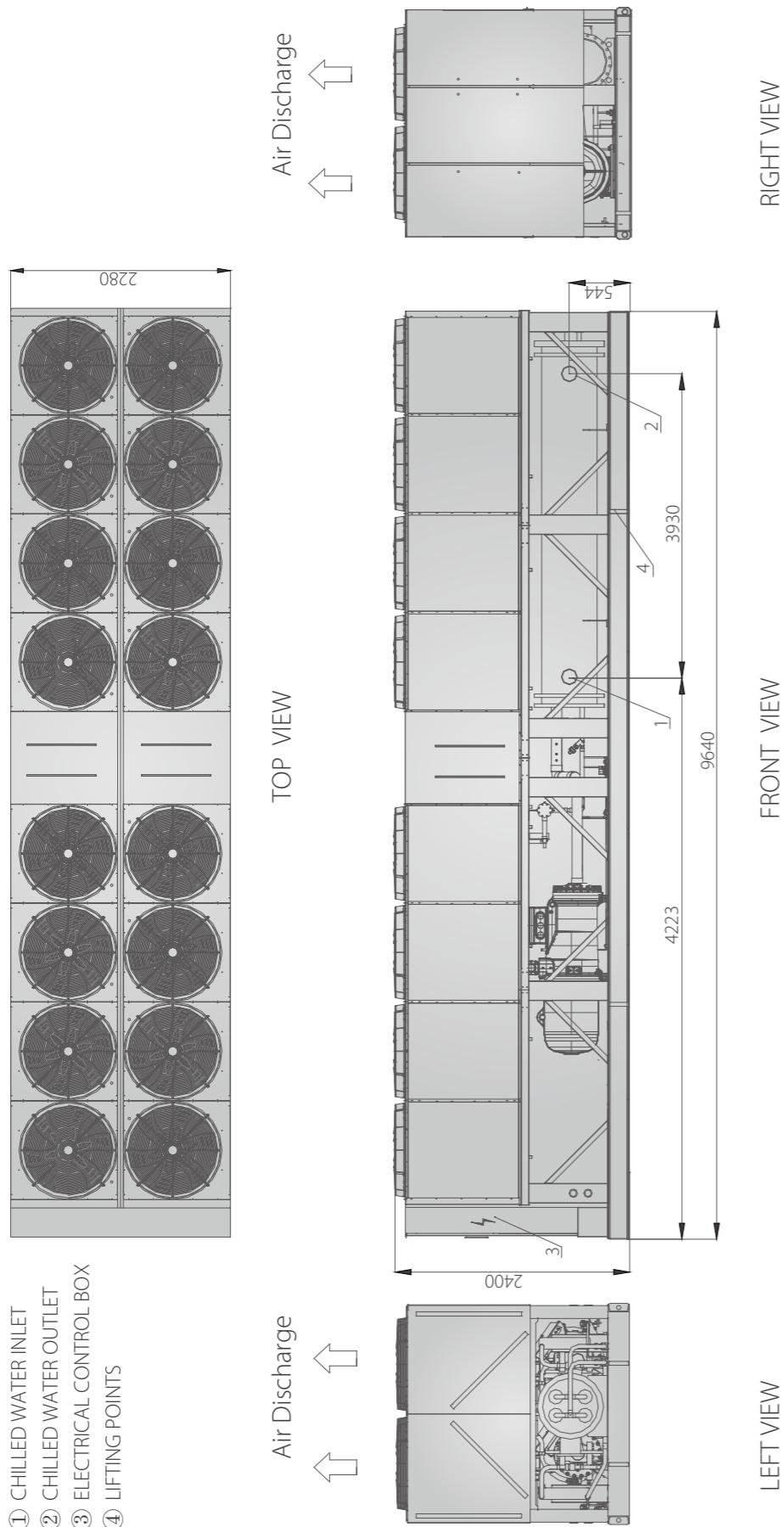
TOP VIEW

LEFT VIEW

FRONT VIEW

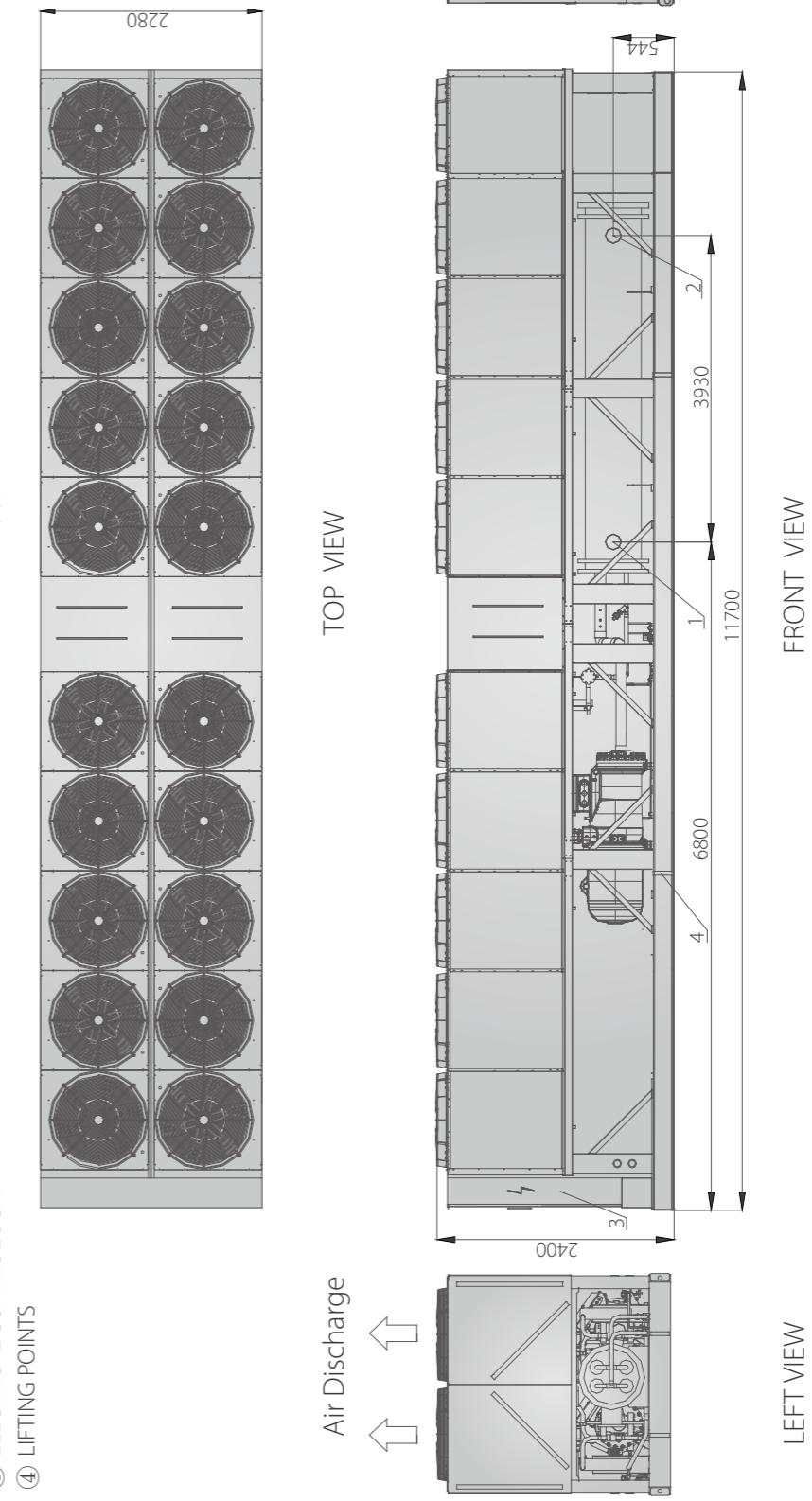
RIGHT VIEW

WDAT-CN280.2



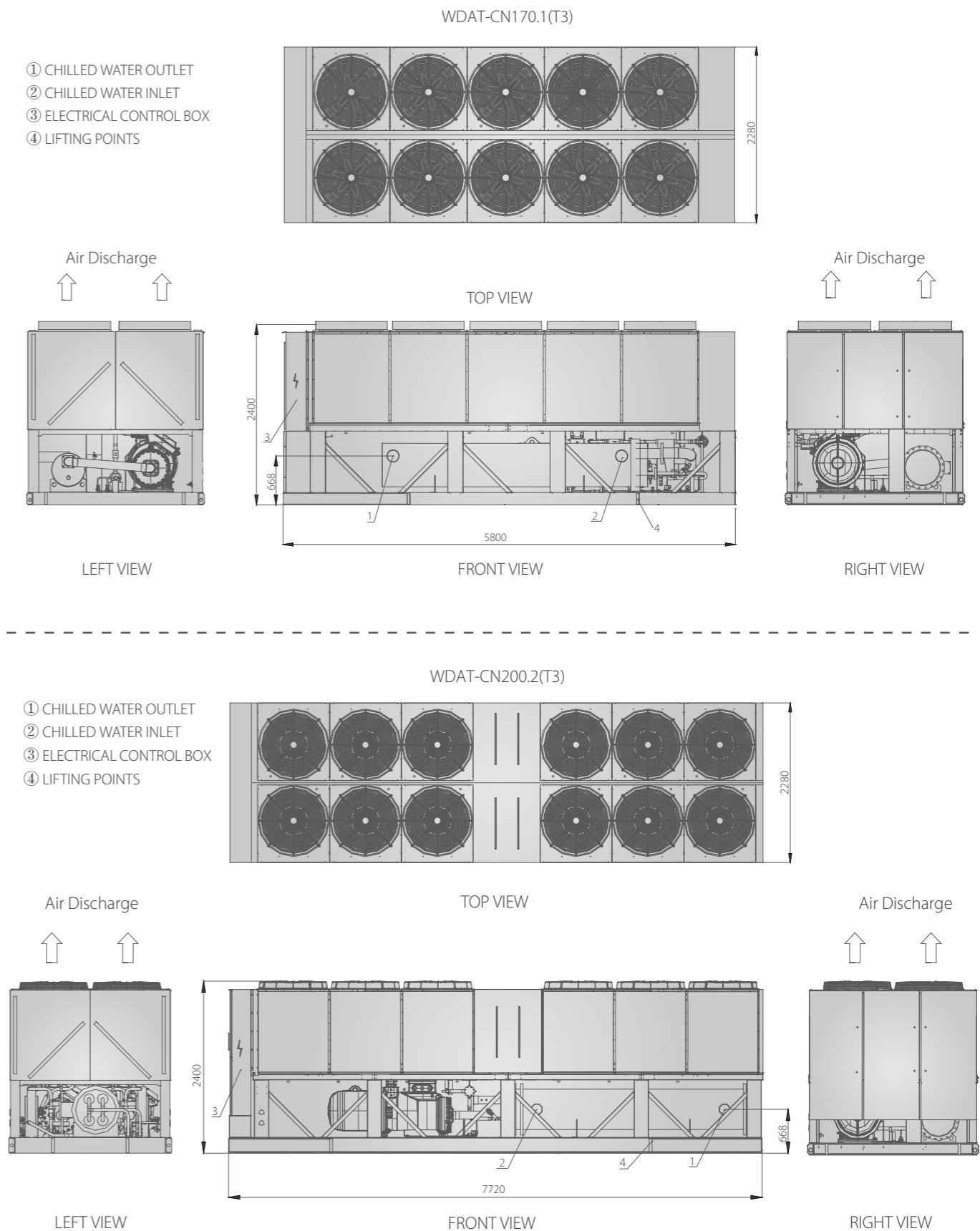
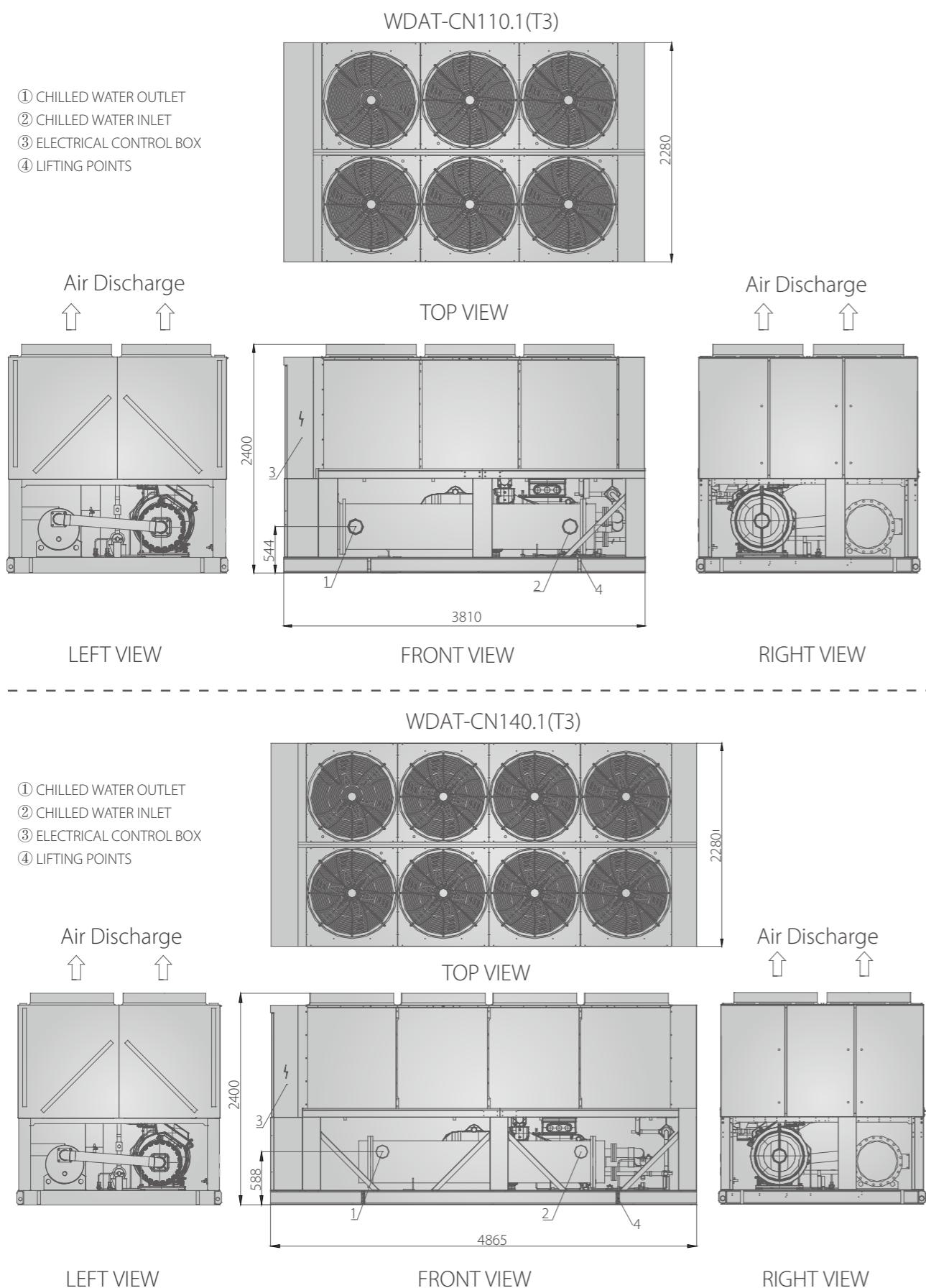
- ① CHILLED WATER INLET
- ② CHILLED WATER OUTLET
- ③ ELECTRICAL CONTROL BOX
- ④ LIFTING POINTS

WDAT-CN400.2

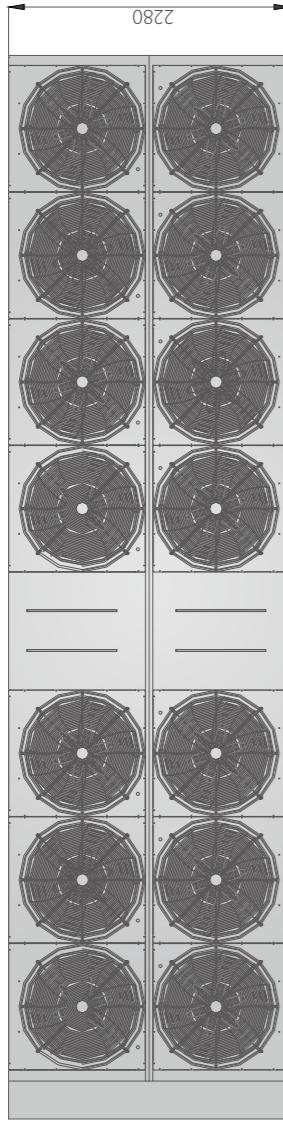


- ① CHILLED WATER INLET
- ② CHILLED WATER OUTLET
- ③ ELECTRICAL CONTROL BOX
- ④ LIFTING POINTS

Dimension (T3)



WDAT-CN260.2(T3)

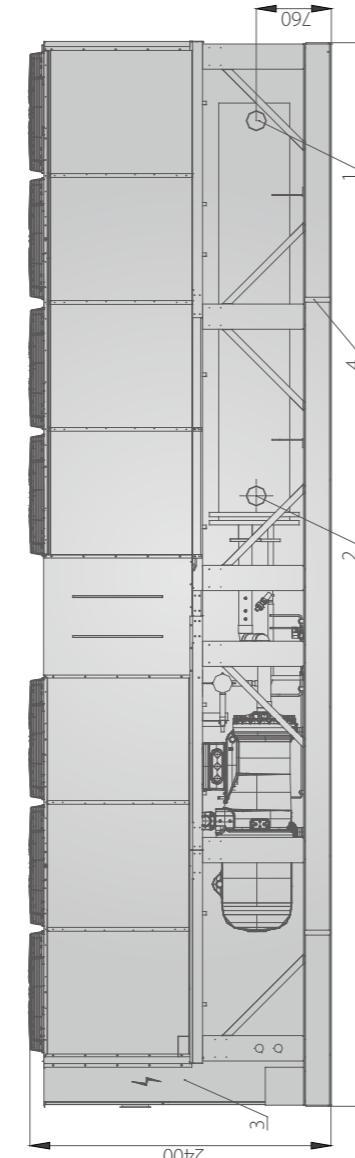


- ① CHILLED WATER OUTLET
- ② CHILLED WATER INLET
- ③ ELECTRICAL CONTROL BOX
- ④ LIFTING POINTS

Air Discharge

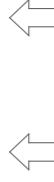


TOPVIEW



LEFT VIEW

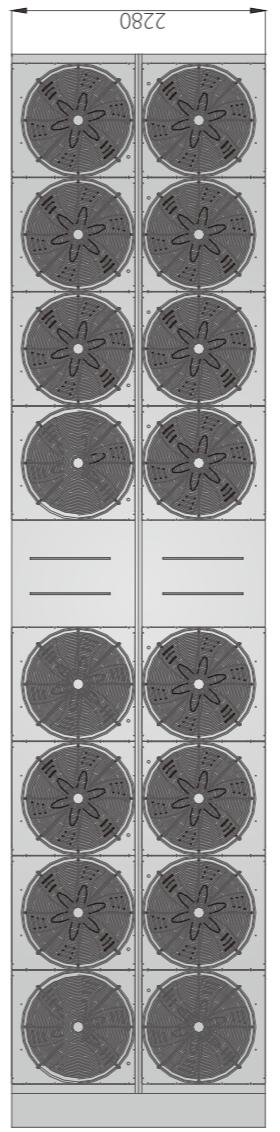
Air Discharge



RIGHT VIEW

FRONT VIEW

WDAT-CN280.2(T3)

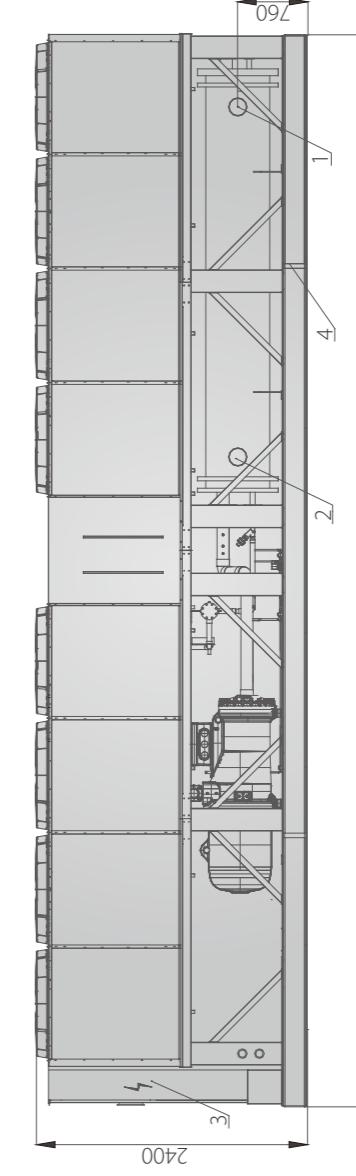


- ① CHILLED WATER OUTLET
- ② CHILLED WATER INLET
- ③ ELECTRICAL CONTROL BOX
- ④ LIFTING POINTS

Air Discharge



TOPVIEW

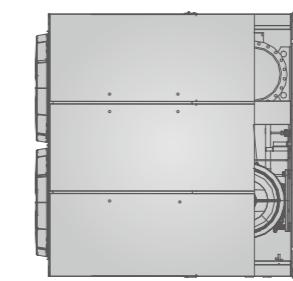


LEFT VIEW

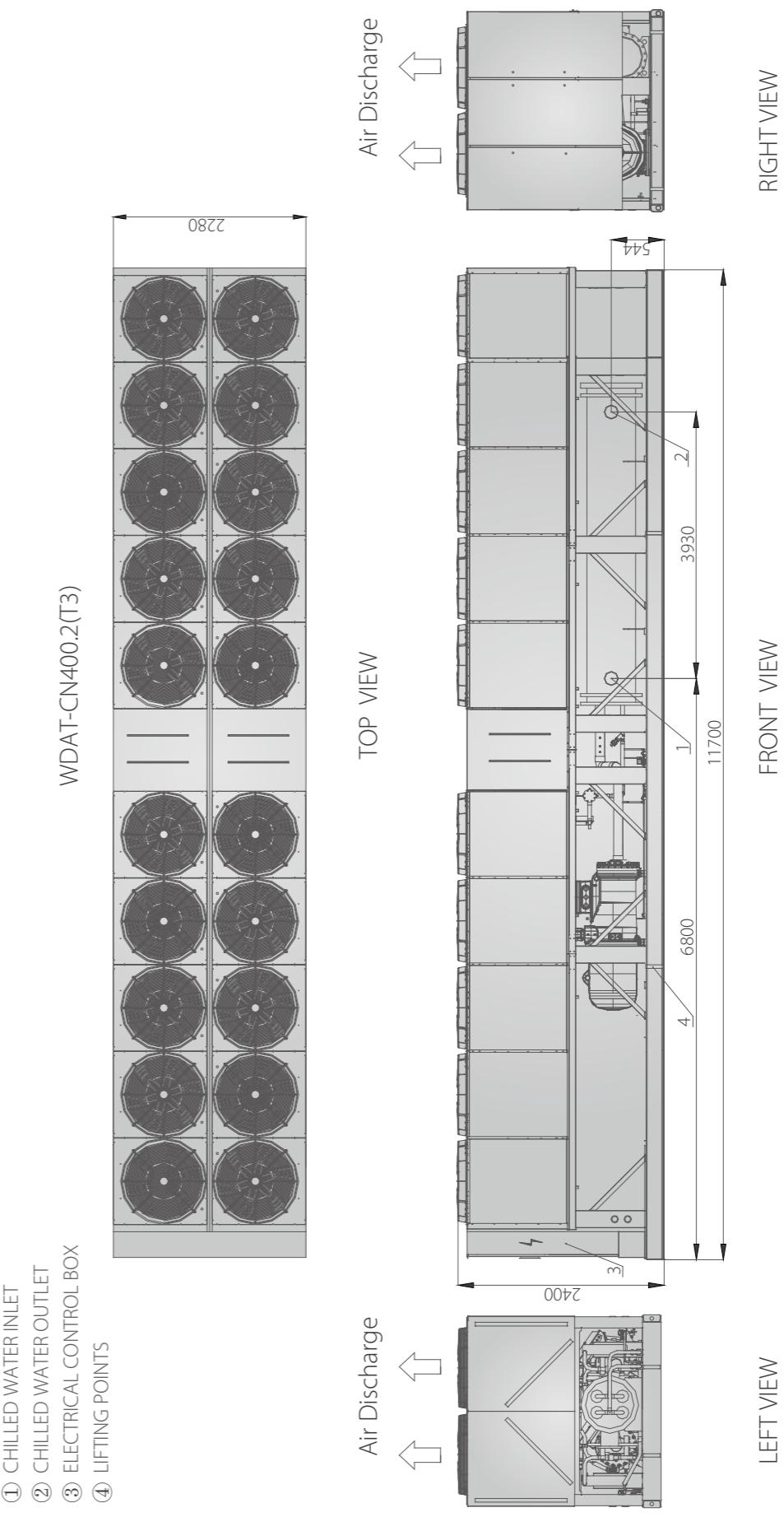
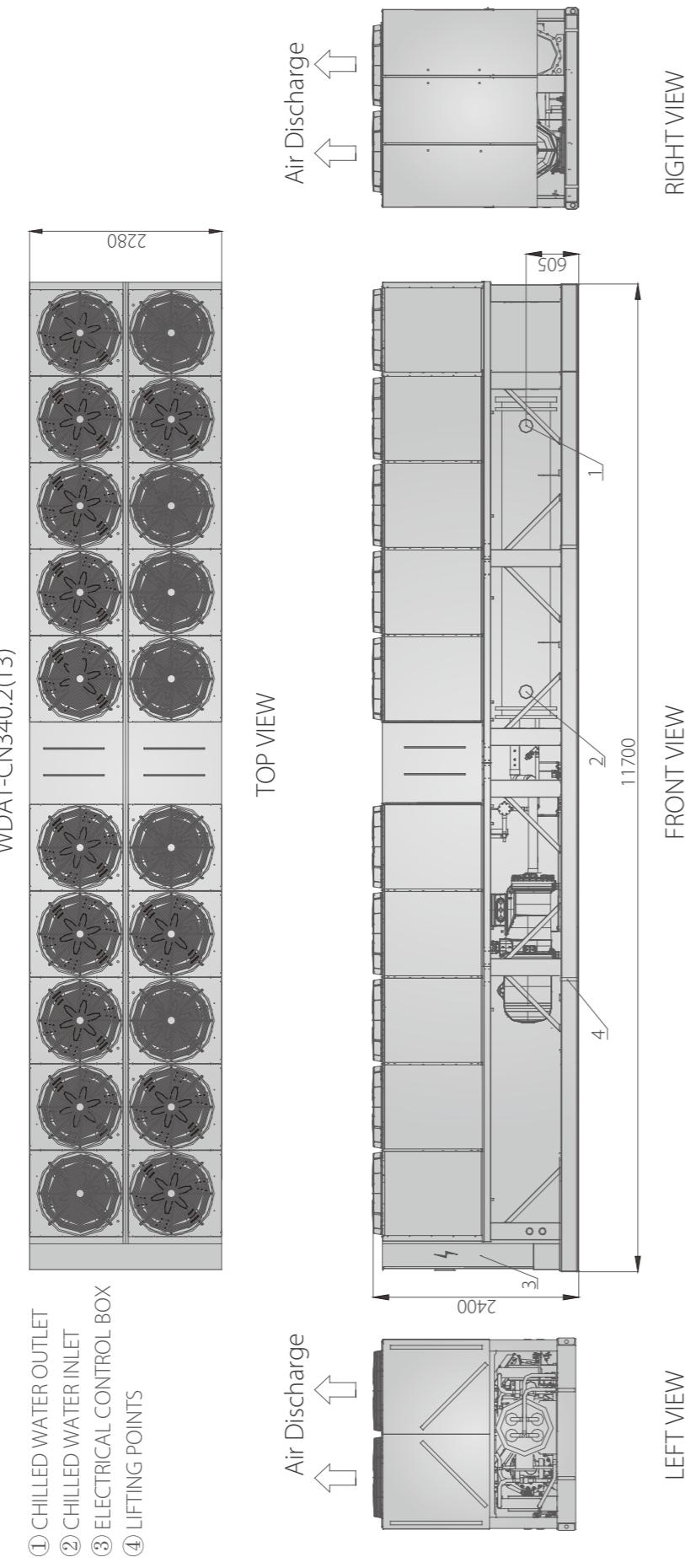
Air Discharge



FRONT VIEW



RIGHT VIEW



Options

Items	Standard	Options
Power supply	380V-3Ph-50Hz	50Hz 400V, 415V
		60Hz 380V, 460V
Water side pressure	1.0MPa	1.6MPa, 2.0MPa
Anti-corrosion treatment	✗	✓
Capacity control	4-step (25% starting up, 50%, 75%, 100%)	Stepless
Control system	MIC	PLC
Communication	Modbus-RTU (RS485 port)	BACnet IP, BACnet MS/TP (RJ-45 port)
Water pipe connection	Victaulic	Flange
Spring vibration isolator	✗	✓
Water flow switch	✗	✓
Insulation	20mm	40mm
Quiet kits	✗	Ultra quiet fans, compressor noise reduction box
Heat recovery	✗	20%
Low ambient temperature cooling	✗	-20°C
Low water outlet temperature	✗	-6.7°C (with ethylene glycol or propylene glycol)
High water outlet temperature	✗	15~20°C
Vessel code	GB	ASME
Remote control panel	✗	✓
Clivet CPC	✗	✓
Clivet Smart Cloud platform	✗	✓
QuickView	✗	✓

Note: For other options, please contact with our engineers.

Installation

Rigging instructions

All rigging should be attached the holes provided in base rails, as shown below.

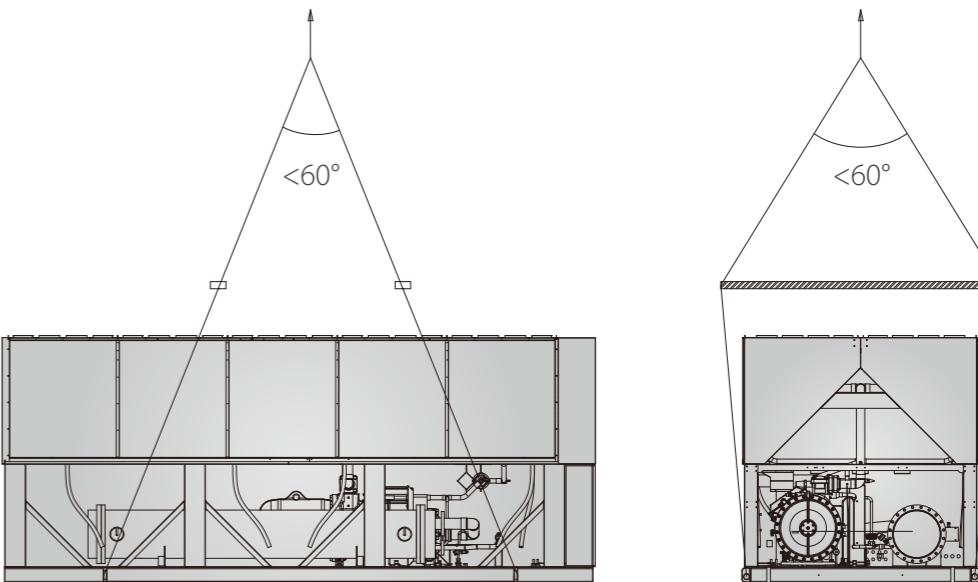
The center of gravity is not the center of the unit. Ensure the center of gravity aligns with the main lifting point before lifting.

Use a spreader bar when rigging to prevent the slings from damaging the unit.

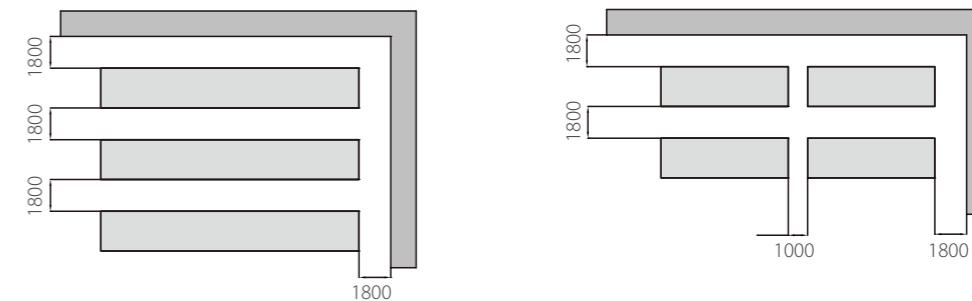
Caution:

All panels should be in place when rigging. Care must be taken to avoid damage to the coils during handling.

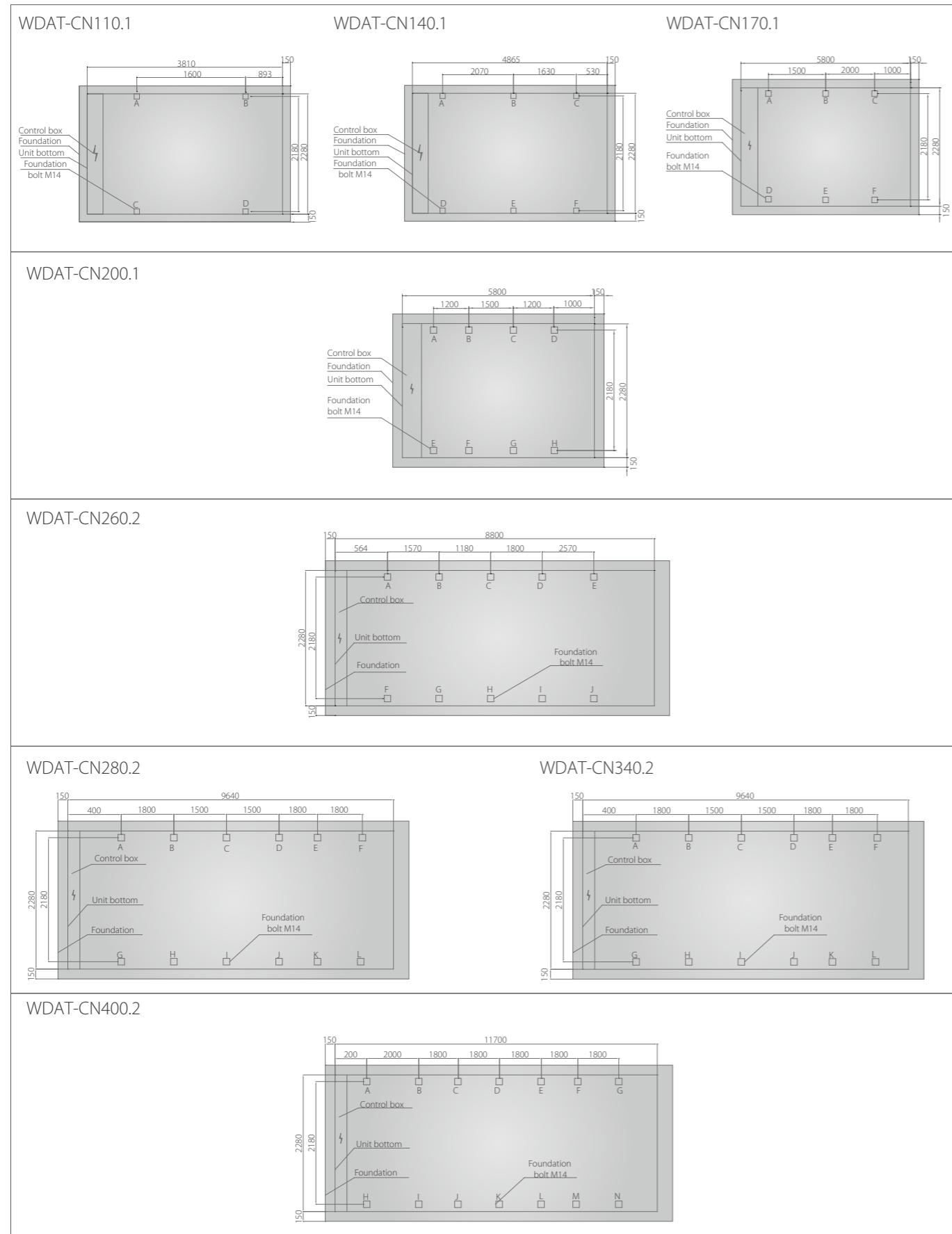
Insert packing material between coils and slings if necessary.



Installation clearance



Mounting location (T1)



Note: All dimensions are in mm.

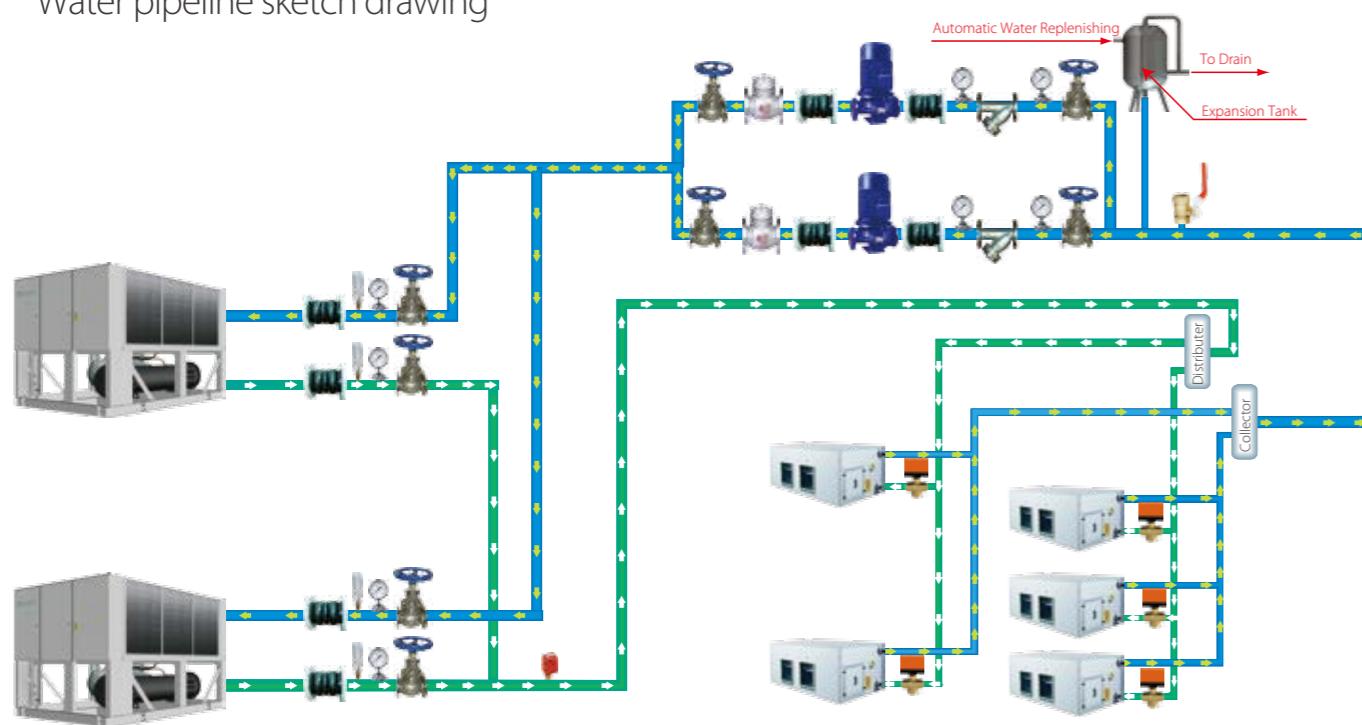
Mounting location (T3)



Note: All dimensions are in mm.

Typical piping system

Water pipeline sketch drawing

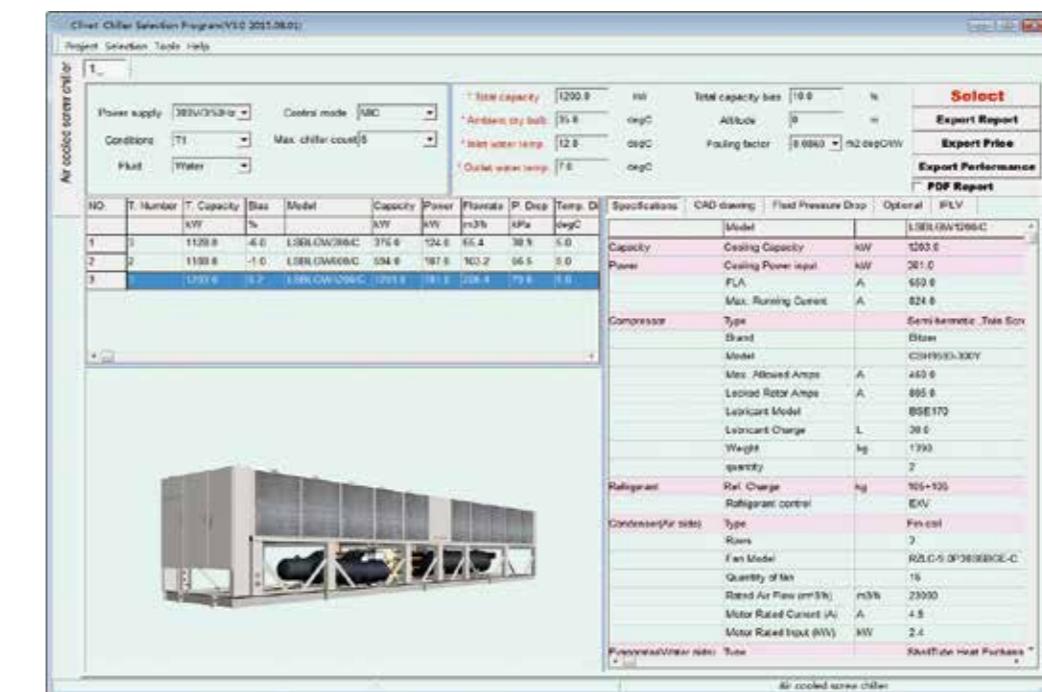


The table below describes the symbols.

Symbol	Symbol Explanation	Symbol	Symbol Explanation
	Stop Valve		Y-shaped Filter
	Pressure Gauge		Temperature Gauge
	Water Flow Switch		Water Pump
	3-Way Valve		One-way Valve
	Flexible Joint		Air Vent Valve

Selection software

Professional software makes the product selection process much easier and more efficient than conventional manual selection. A simple operating interface and smart logic greatly improves selection efficiency. The user simply needs to provide basic parameters such as cooling capacity, fouling factor, and power supply. The program will then display all suitable models for easy selection. If you have any questions please feel free to contact us.





Large capacity
air cooled scroll chiller



Overview

Features

Specifications

Dimension and base diagram

Options

Installation and maintenance

Operating and control system

Overview

Clivet large capacity air cooled scroll chiller adopts a modular design. Two basic modules and max. 8 units can be combined. The unit can be widely used in various buildings, including hotels, hospitals, schools, factories, and office buildings, etc.

Core advantages



Heat Pump/
Cooling Only



Environmental
Friendly



Quiet Operation



Flexible Installation

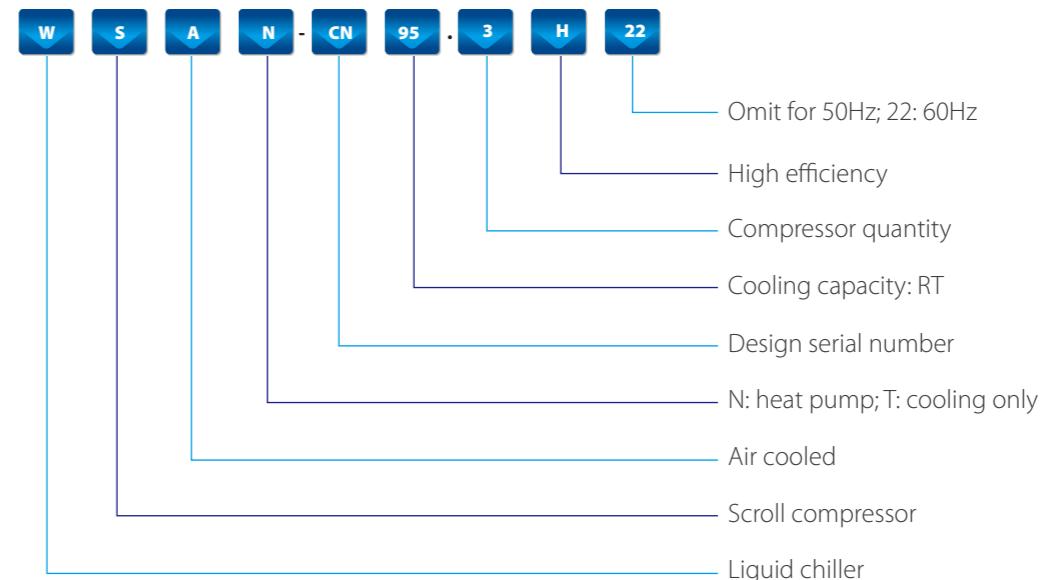


Wide Operation
Range



Intelligent Control

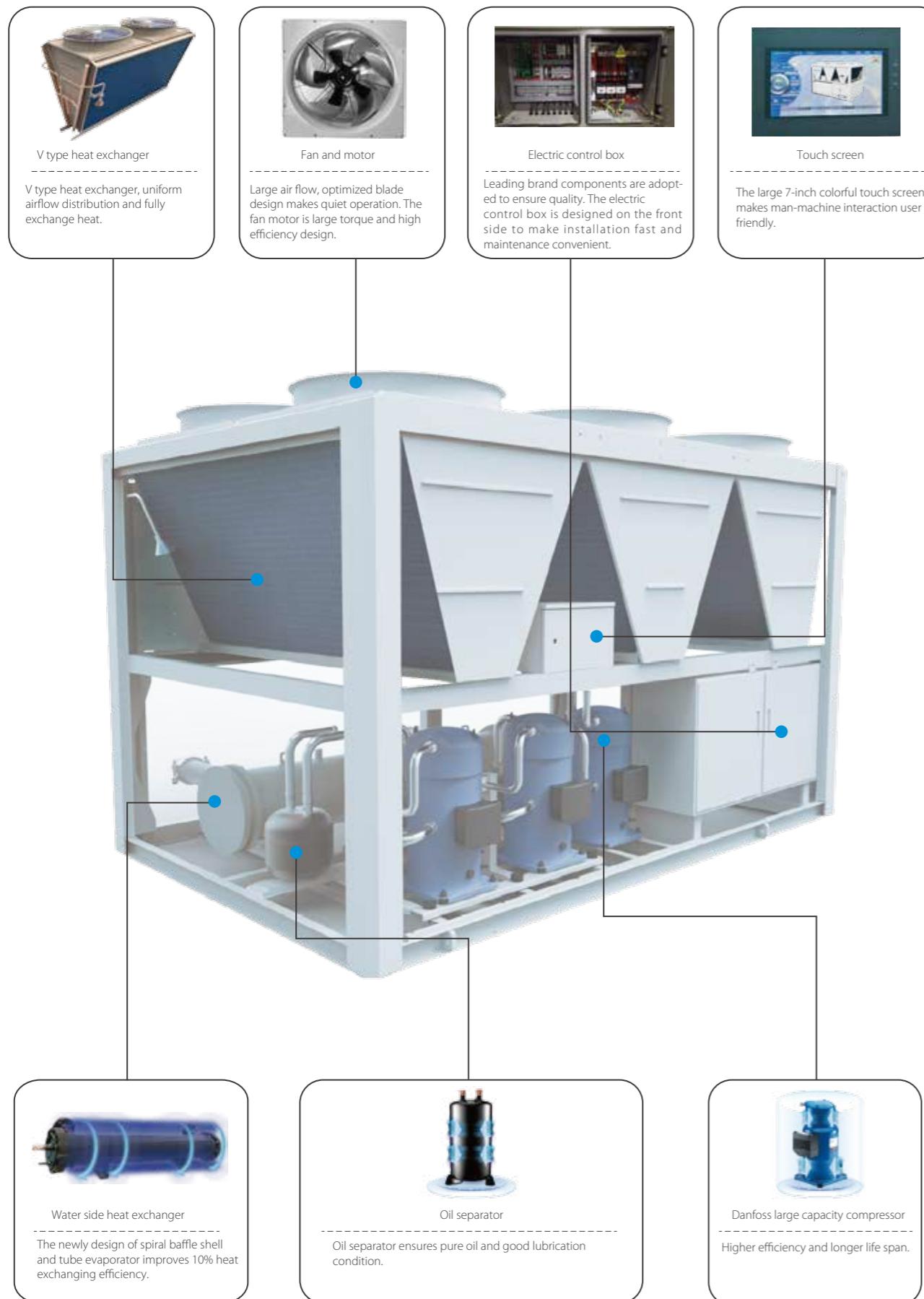
Nomenclature



Operating range

Operating condition	Cooling	Heating
Ambient temperature	0~48°C	-15~35°C
Water outlet temperature	5~15°C	20~50°C

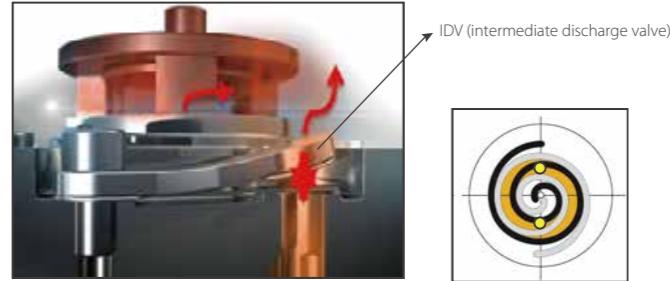
Unit structure



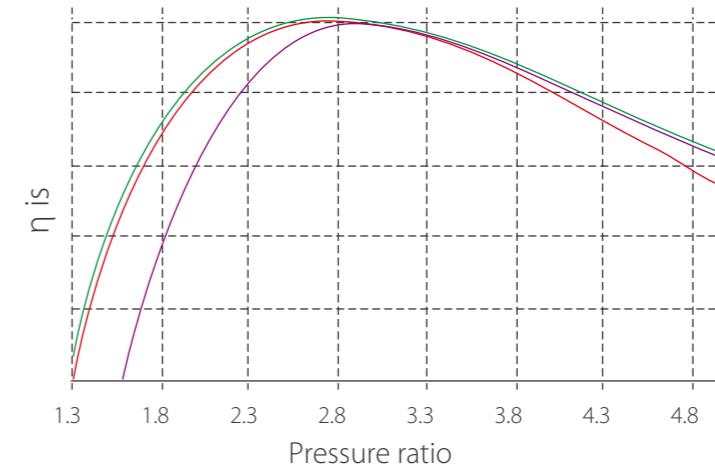
Features

Energy saving

- ❖ The compressor adopts an intermediate discharge valve design. The system can operate efficiently under full pressure ratio to achieve high operating efficiency.

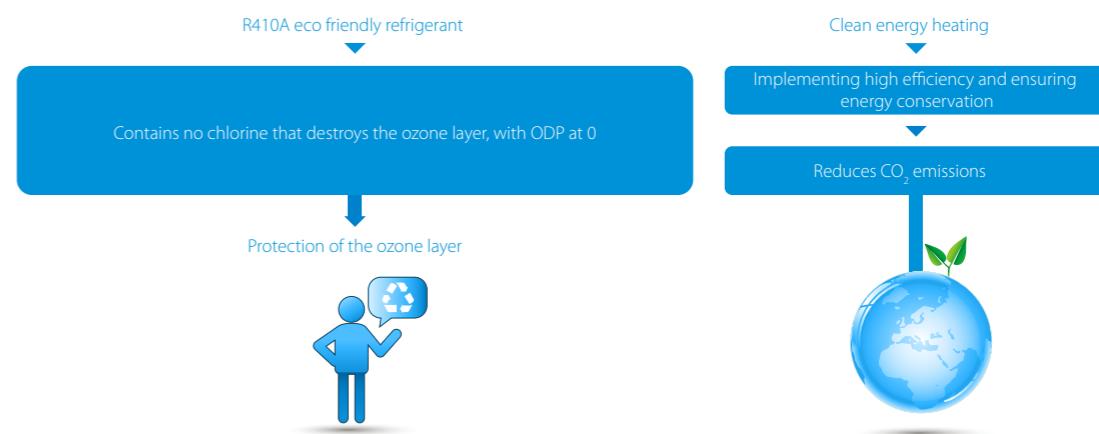


- Efficiency curve of IDV combined
- Efficiency curve of open IDV
- Efficiency curve of closed IDV



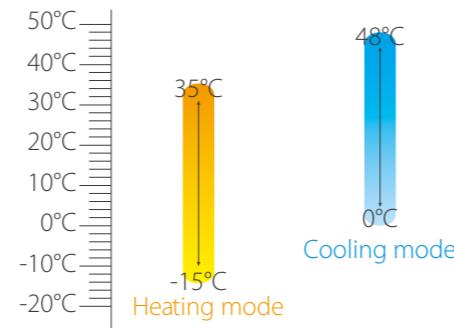
Eco friendly

- ❖ R410A eco friendly refrigerant to achieve higher cooling efficiency. R410A does not contain chlorine that destroys the ozone layer, and its Ozone Depletion Potential (ODP) value is 0, fully protecting the environment.
- ❖ Helpful to obtain green building, LEED and other building certification.



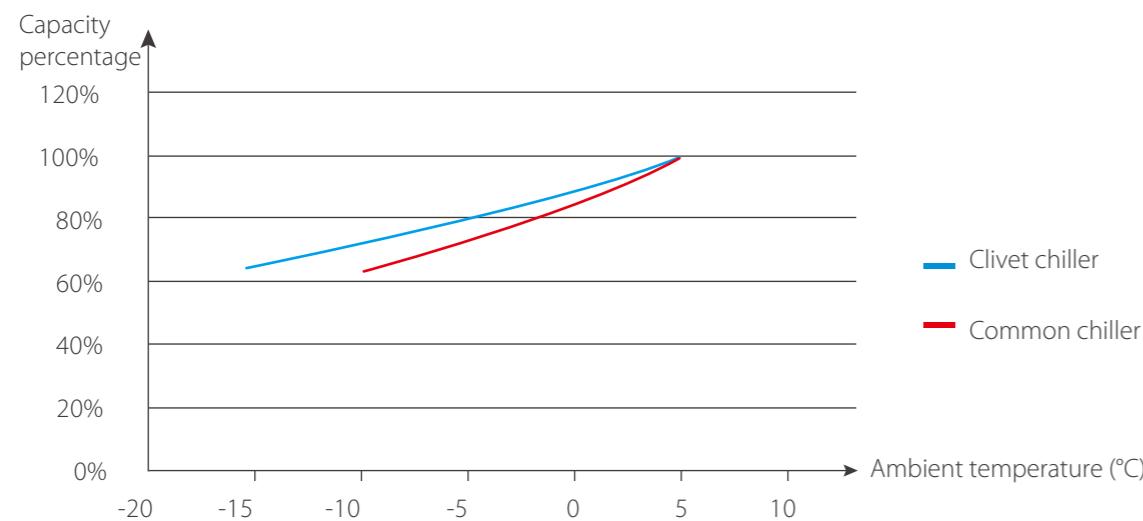
Wide range operation

- ❖ Cooling mode: 0°C to 48°C. Heating mode: -15°C to 35°C.



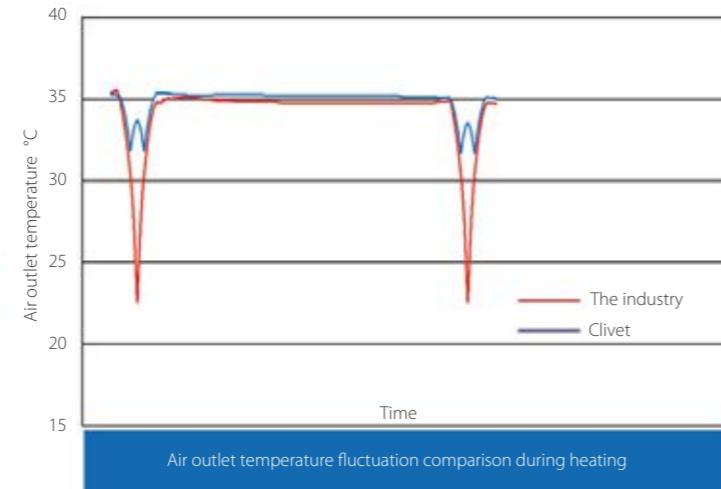
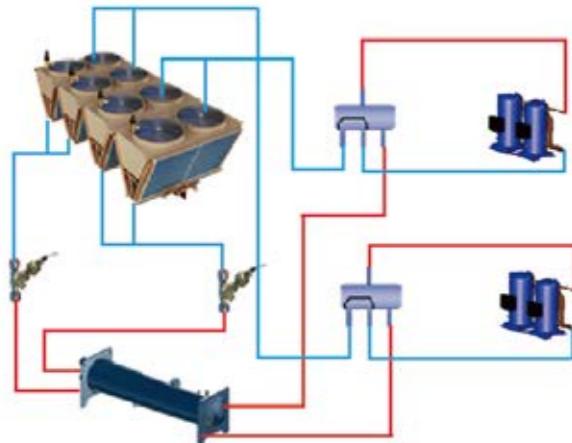
Comfortable heating

- ❖ Powerful low-temperature heating performance and advanced pressure ratio control technology ensures efficient and stable heating operation in low temperature environment.
- ❖ The heating attenuation at -15°C is less than 35%.
- ❖ Intelligent defrosting avoids wasting energy when there is no need for defrosting.



Segment defrosting

- ❖ Multi-segment defrosting, air outlet temperature fluctuation is small during defrosting and enhancing the comfort of end users.



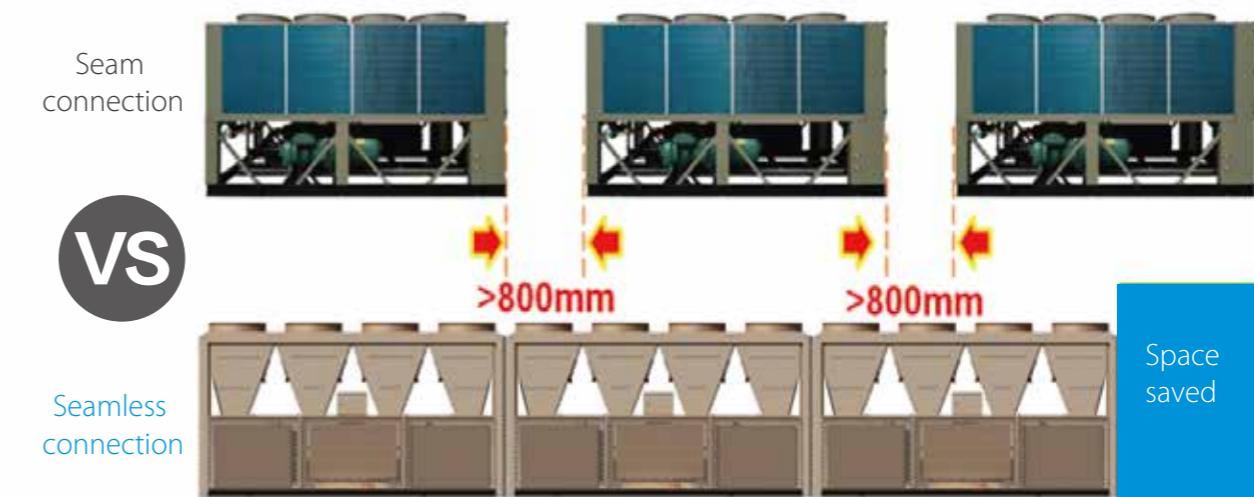
Quiet operation

- ❖ High efficiency and low noise fan design.
- ❖ The fan impeller is optimized with professional flow field software to ensure good aerodynamics and a larger air flow with less noise, improving the heat exchange on the air side.
- ❖ The noise reduction box for the compressor runs the whole unit at 5 to 10dB(A) quieter, totally about 68~76dB(A).

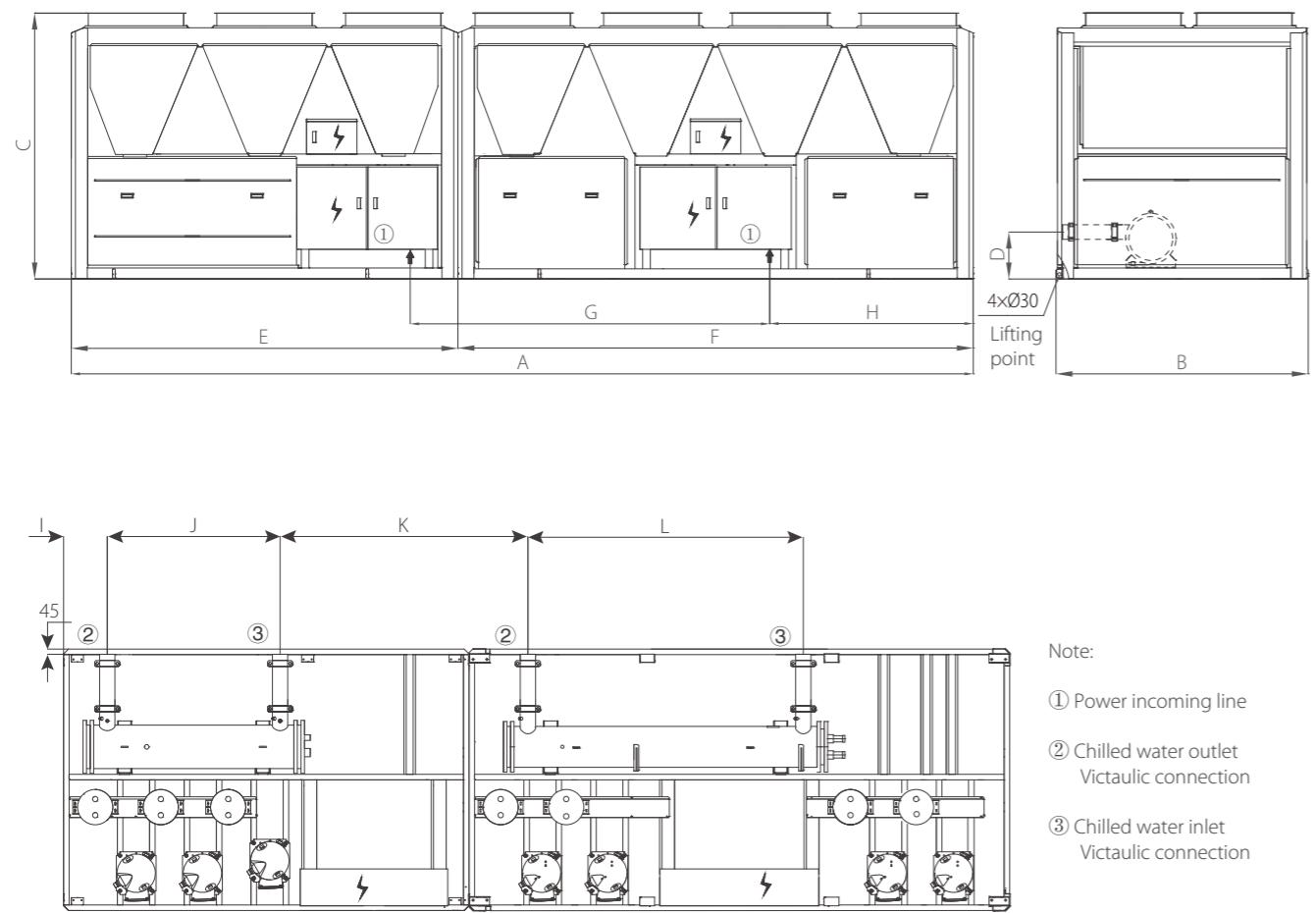


Seamless connection

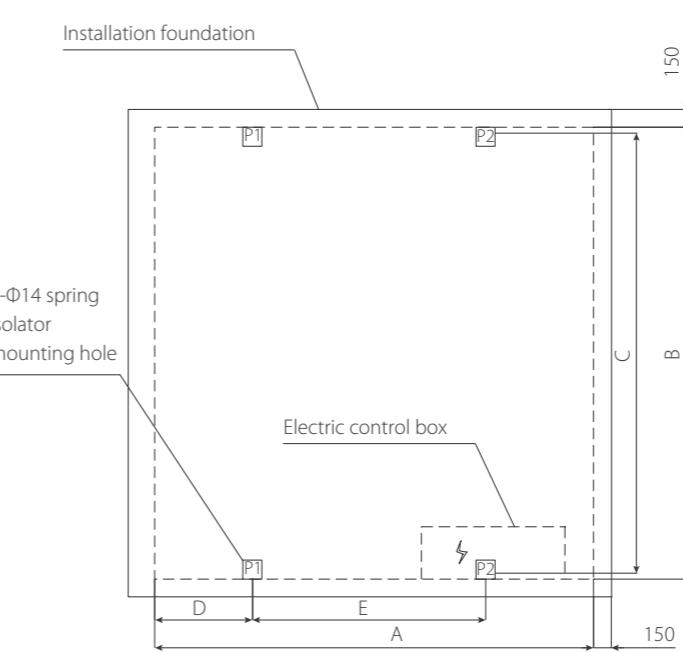
- ❖ Modular design concept, free combination to meet different capacity requirements. Possible to increase capacity in the future expansion.
- ❖ The "V" module design allows lateral ventilation and heat exchange. Multiple modules can be seamlessly connected to reduce the installation area.



Base diagram



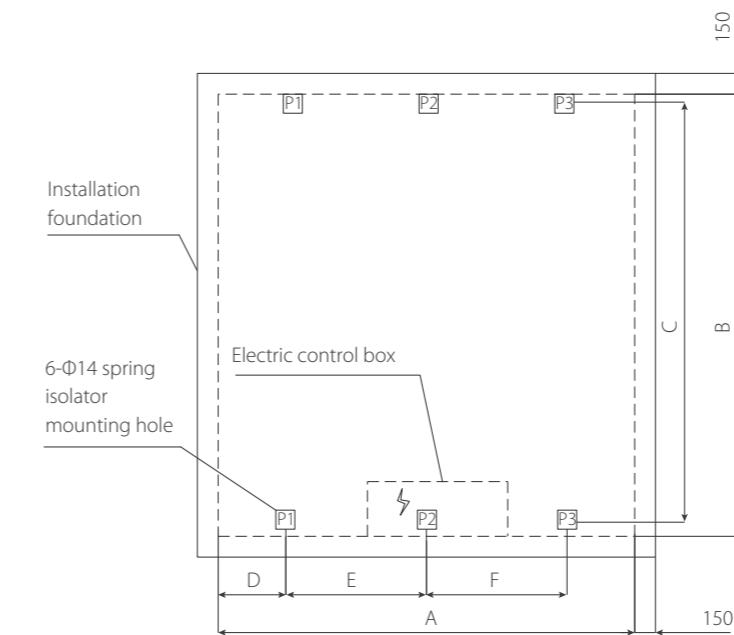
Model	Dimension (unit: mm)											
	A	B	C	D	E	F	G	H	I	J	K	L
WSAN-CN190.6H WSAT-CN190.6H WSAT-CN230.6H22	7060	2300	2500	430	3530	3530	3530	365	380	1500	2030	1500
WSAN-CN220.7H WSAT-CN220.7H WSAT-CN265.7H22	8230	2300	2500	430	3530	4700	3240	1825	380	1500	2165	2390
WSAN-CN250.8H WSAT-CN250.8H WSAT-CN300.8H22	9400	2300	2500	430	4700	4700	4700	1825	515	2390	2310	2390



Model	Base dimension (unit: mm)				
--	A	B	C	D	E
WSAN-CN95.3H	3530	2300	2220	644	2200
WSAT-CN95.3H					
WSAT-CN115.3H22					

Model	Spring isolator at all points	
--	P1	P2
WSAN-CN95.3H	MHD-1050	MHD-1050
WSAT-CN95.3H		
WSAT-CN115.3H22		

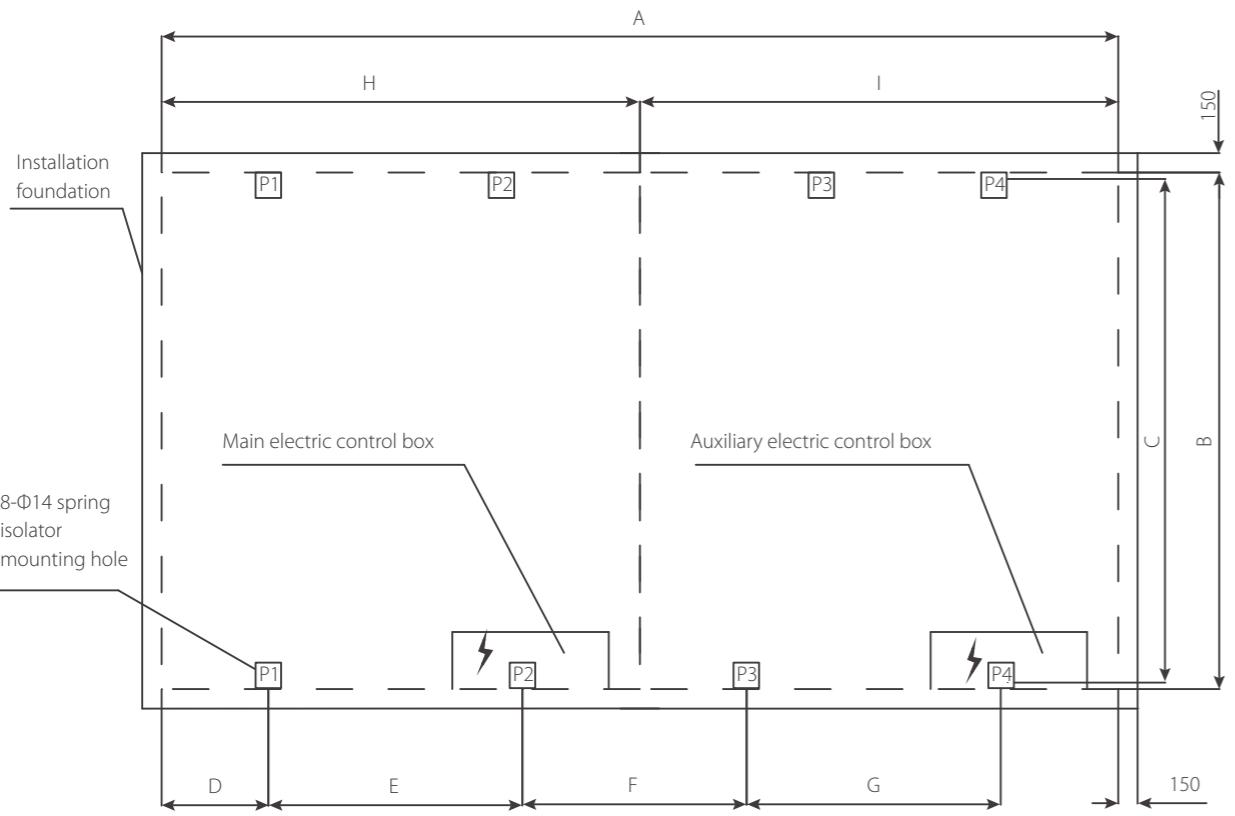
Note:
1. The spring isolator is optional.
2. The value in the spring isolator model indicates the bearable weight (unit: kg). For example, "1050" in "MHD-1050" indicates 1,050kg.



Model	Base dimension (unit: mm)					
--	A	B	C	D	E	F
WSAN-CN125.4H	4700	2300	2220	844	1412	1600
WSAT-CN125.4H						
WSAT-CN150.4H22						

Unit model	Spring isolator at all points		
--	P1	P2	P3
WSAN-CN125.4H	MHD-850	MHD-850	MHD-850
WSAT-CN125.4H			
WSAT-CN150.4H22			

Note:
1. The spring isolator is optional.
2. The value in the spring isolator model indicates the bearable weight (unit: kg). For example, "850" in "MHD-850" indicates 850kg.



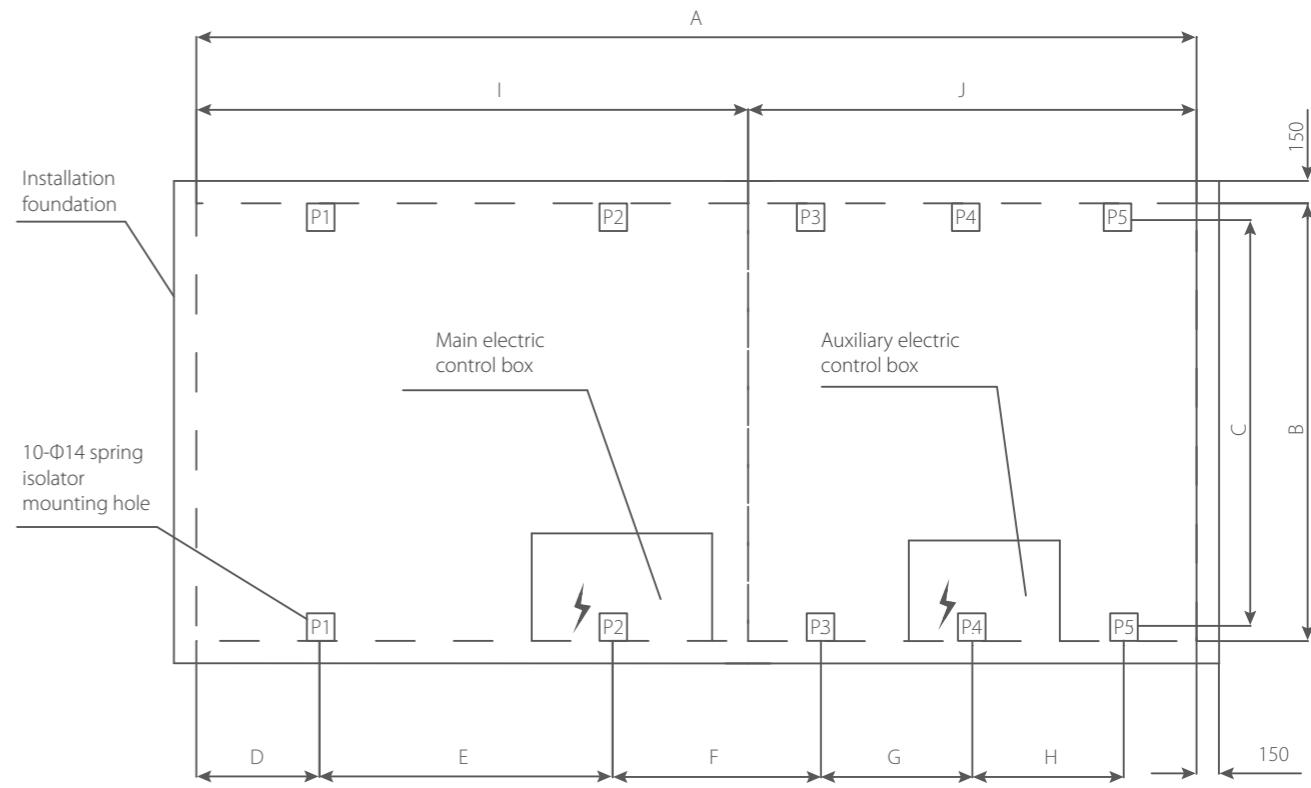
Model	Base dimension (unit: mm)								
--	A	B	C	D	E	F	G	H	I
WSAN-CN190.6H									
WSAT-CN190.6H	7060	2300	2220	644	2200	1330	2200	3530	3530
WSAT-CN230.6H22									

Model	Spring isolator at all points			
--	P1	P2	P3	P4
WSAN-CN190.6H				
WSAT-CN190.6H	MHD-1050	MHD-1050	MHD-1050	MHD-1050
WSAT-CN230.6H22				

Note:

1. The spring isolator is optional.

2. The value in the spring isolator model indicates the bearable weight (unit: kg). For example, "1050" in "MHD-1050" indicates 1,050kg.



Model	Base dimension (unit: mm)									
--	A	B	C	D	E	F	G	H	I	J
WSAN-CN220.7H										
WSAT-CN220.7H	8230	2300	2220	644	2200	1530	1412	1600	3530	4700
WSAT-CN265.7H22										

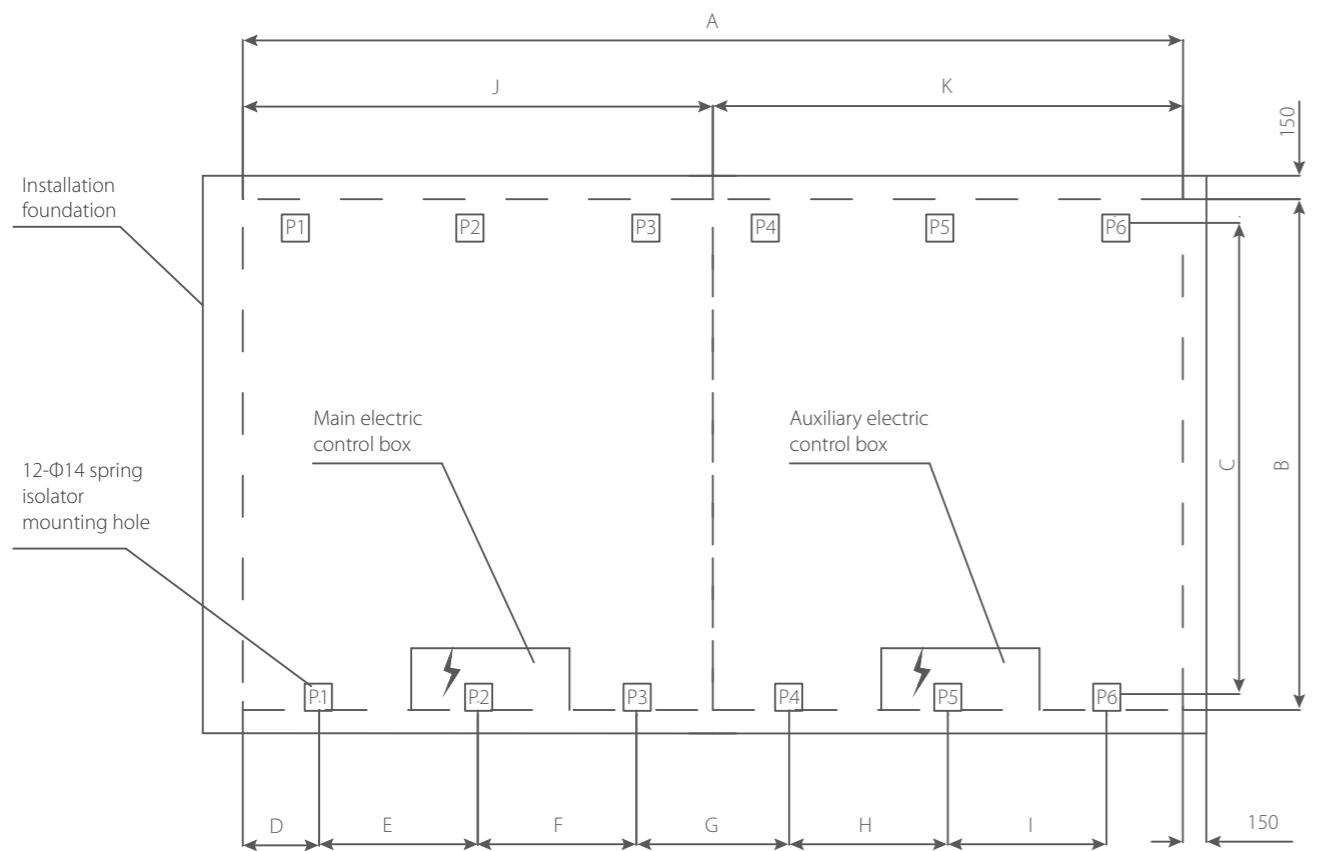
Model	Spring isolator at all points				
--	P1	P2	P3	P4	P5
WSAN-CN220.7H					
WSAT-CN220.7H	MHD-1050	MHD-1050	MHD-850	MHD-850	MHD-850
WSAT-CN265.7H22					

Note:

1. The spring isolator is optional.

2. The value in the spring isolator model indicates the bearable weight (unit: kg). For example, "1050" in "MHD-1050" indicates 1,050kg.

Options



Model	Base dimension (unit: mm)											
	A	B	C	D	E	F	G	H	I	J	K	
--	9400	2300	2220	844	1412	1600	1688	1412	1600	4700	4700	
WSAN-CN250.8H												
WSAT-CN250.8H												
WSAT-CN300.8H22												

Model	Spring isolator at all points						
	P1	P2	P3	P4	P5	P6	
--	MHD-850	MHD-850	MHD-850	MHD-850	MHD-850	MHD-850	
WSAN-CN250.8H							
WSAT-CN250.8H							
WSAT-CN300.8H22							

Note:

1. The spring isolator is optional.

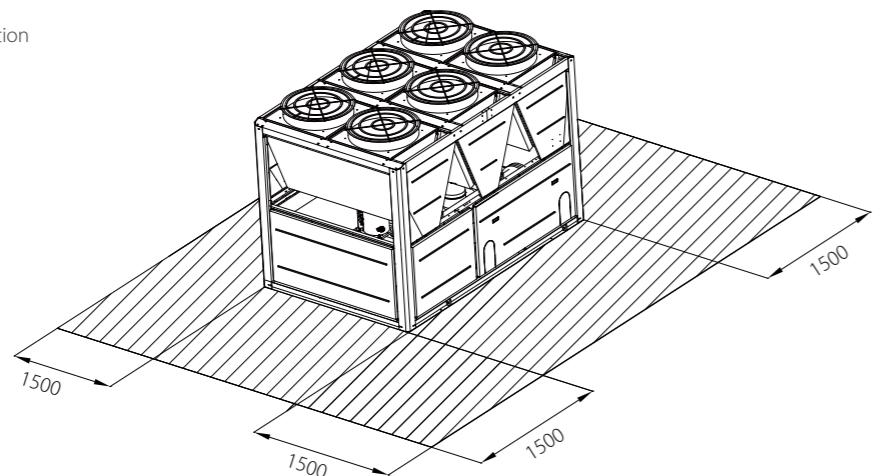
2. The value in the spring isolator model indicates the bearable weight (unit: kg). For example, "850" in "MHD-850" indicates 850kg.

Items	Standard	Options
Power supply	380V-3Ph-50Hz	50Hz: 400V, 415V (Cooling only and Heat pump) 60Hz: 460V (Cooling only)
		1.6MPa, 2.0MPa
Water side pressure	1.0MPa	1.6MPa, 2.0MPa
Anti-corrosion treatment	×	√
Communication	Modbus-RTU (RS485 port)	BACnet IP, BACnet MS/TP (RJ-45 port)
Water pipe connection	Victaulic	Flange
Spring isolator	×	√
Water flow switch	×	√
Insulation	20mm	40mm
Quiet kits	Compressor noise reduction box and ultra quiet fans (60Hz)	Compressor noise reduction box and ultra quiet fans (50Hz)
Built-in hydraulic module	×	√ (50Hz)
Heat recovery	×	30% (50Hz), 25~28% (60Hz)
Low ambient temperature cooling	×	-20°C
Low water outlet temperature	×	-6.7°C (with ethylene glycol or propylene glycol)
High water outlet temperature	×	15~20°C
Remote control panel	×	√
Clivet CPC	×	√
Clivet Smart Cloud platform	×	√
QuickView	×	√

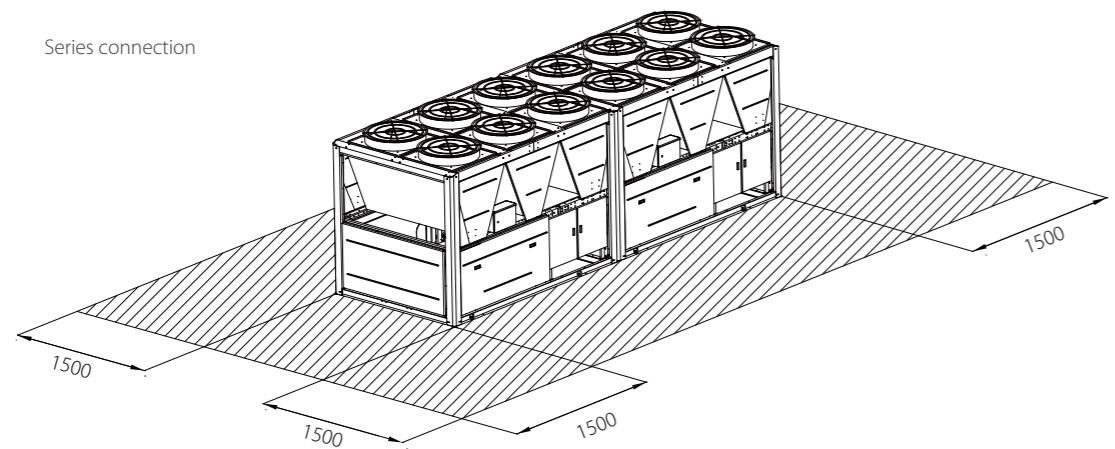
Note: For other options, please contact with our engineers.

Installation and maintenance

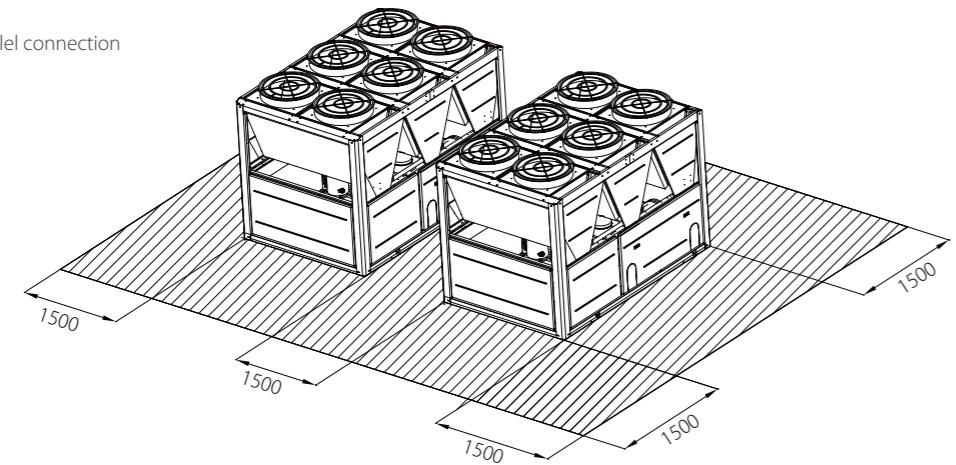
Single installation



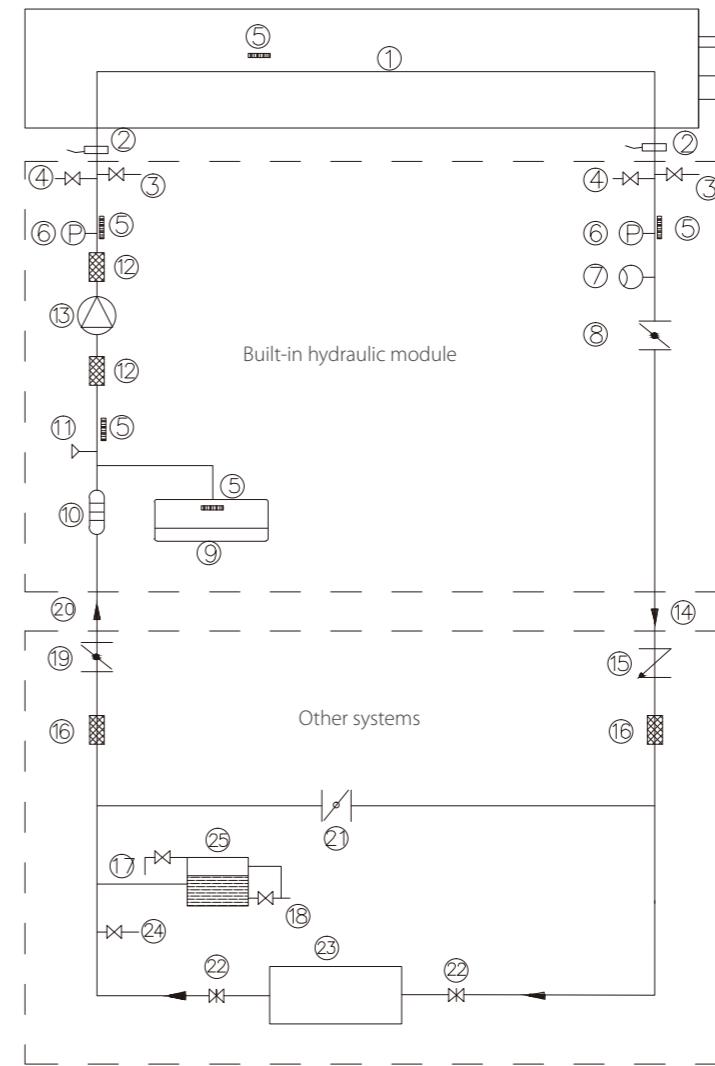
Series connection



Parallel connection



Built-in hydraulic module



Built-in hydraulic module
Component

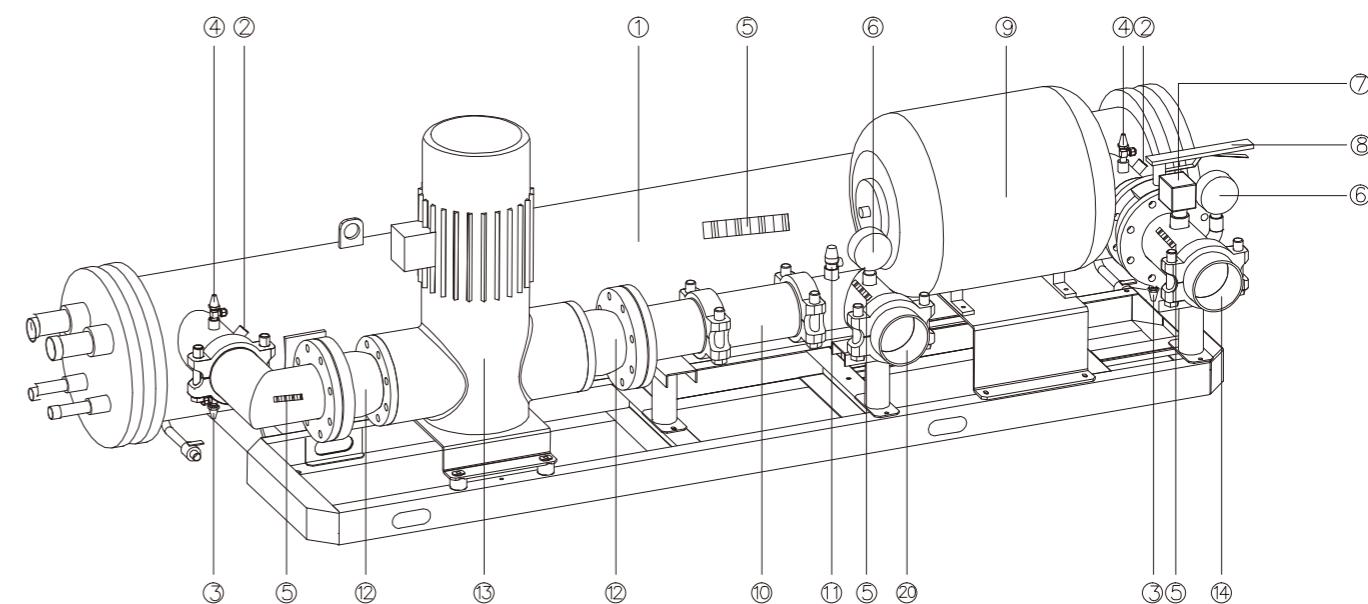
1. Shell-and-tube heat exchanger
2. Water temperature sensor
3. Drain valve
4. Air discharge valve
5. Antifreeze electric heater
6. Water pressure gauge
7. Electronic flow switch
8. Butterfly valve
9. Expansion tank
10. Filter (Vicatulic fixing)
11. Safety valve
12. Rubber soft joint
13. Water pump

Flow direction

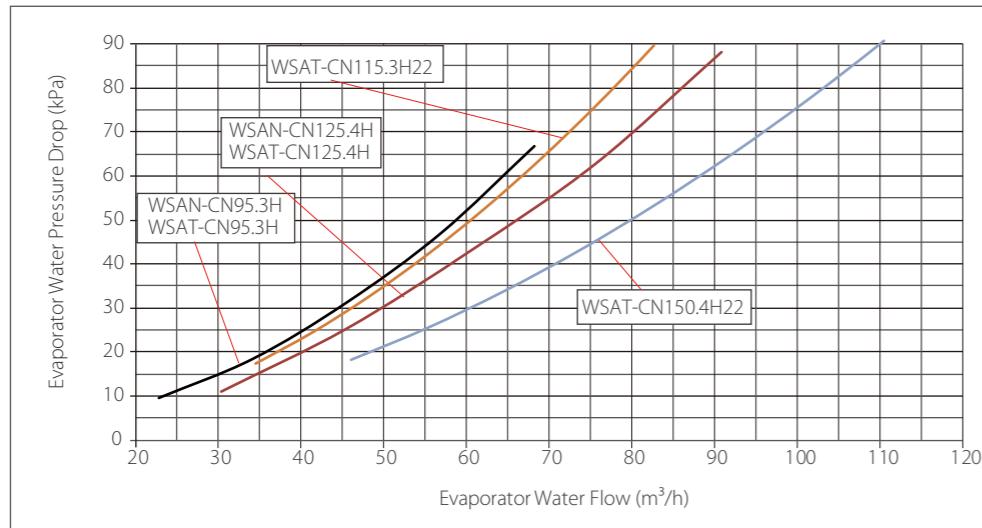
14. Water outlet of hydraulic module
20. Water inlet of hydraulic module

Other system components
(Installed by customer)

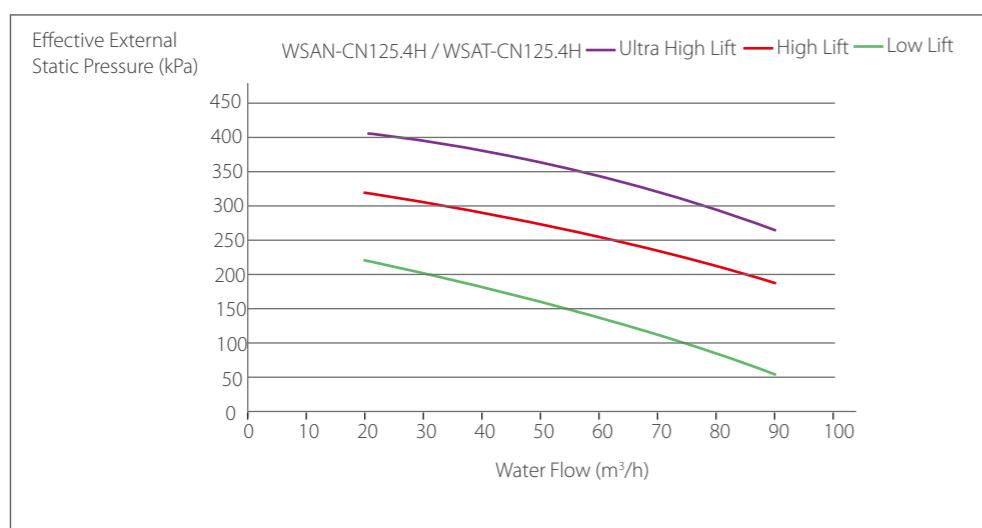
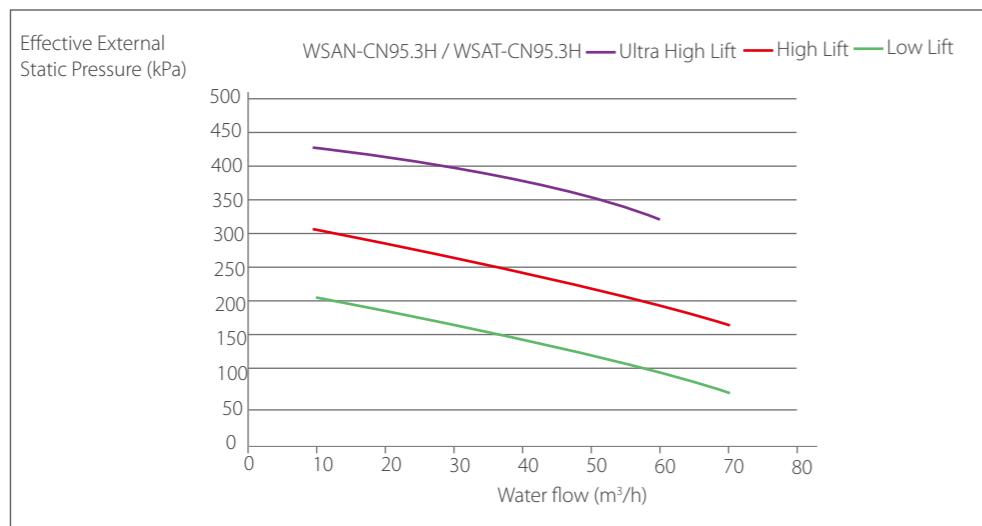
15. Check valve
16. Rubber soft joint
17. Water replenishing valve
18. Drain valve
19. Butterfly valve
21. Bypass valve
22. Stop valve
23. Air conditioning terminal
24. Air discharge valve
25. Expansion tank



Water pressure drop



Effective external pump lift



Operating and Control System

The perfect operating and control system of large capacity air cooled scroll chiller provides user friendly interfaces for fast/convenient operations and advanced control, allowing one or multi chiller to run stably.

Interface display

- ▶ 7 inch true color touch screen display interface.
- ▶ Visually displays operating parameters, including operating status, pressure, temperature, input status, and output status.
- ▶ Real-time failure displays and historical failure data queries.



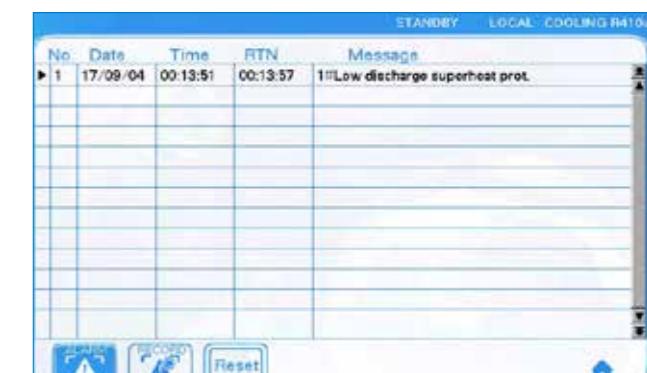
Complete control functions

- ▶ Local control and remote control.
- ▶ Implements the following control functions: Independent setting of water outlet temperature, intelligent load control, joint control of multiple units, intelligent defrosting, and intelligent low temperature control.



Safety protection

- ▶ High pressure, low pressure, overload, discharge temperature, water flow, pressure ratio, and discharge superheat protection.



Intelligent management

Clivet CPC

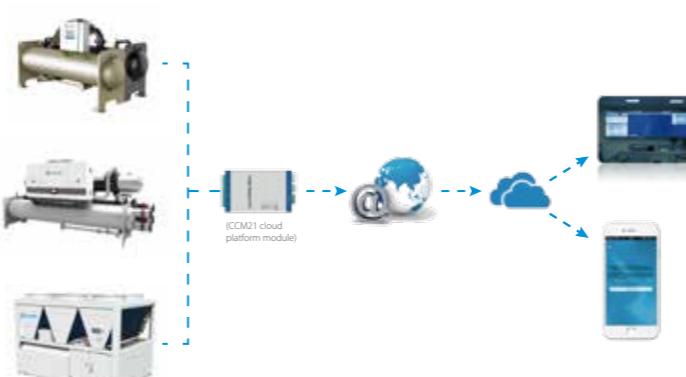
Clivet CPC is a group control system for commercial air conditioning that includes air conditioners, water pumps, cooling towers, terminals and related ancillary equipment (including valves, sensors etc.) as the underlying control objects. Based on a powerful control logic program and communication network, it establishes a 3-layer control framework that integrates the equipment, control and management layers. Clivet CPC contains a unique operation module from Clivet that is designed to save energy, so in addition to automated stable operations for the various devices, this product also improves and optimizes user management capabilities, reduces labour costs, boosts operational efficiency, and lowers the overall energy consumption for commercial air conditioning.



Clivet Smart Cloud platform

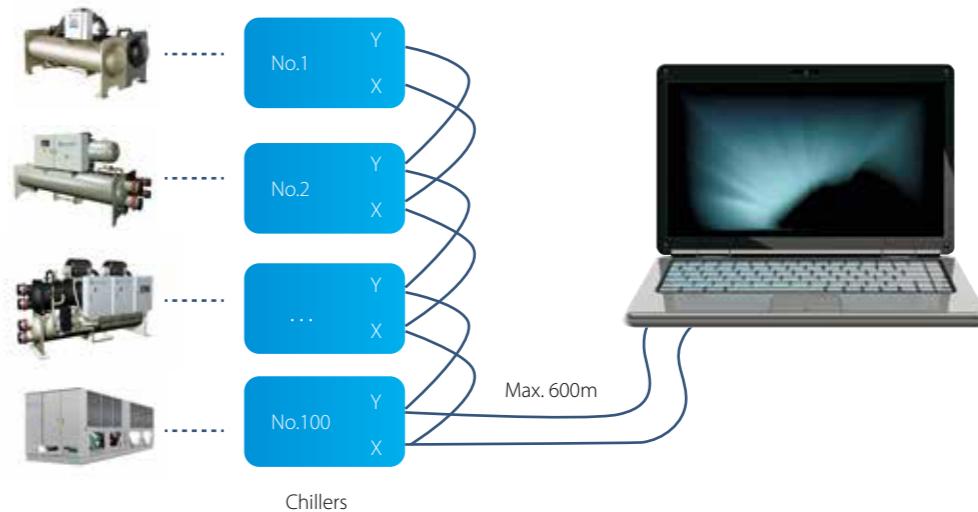


Clivet has built a flawless internet-based remote monitoring system, which provides customers with outstanding cloud service via advanced cloud service technologies and the internet. Customers can connect Clivet air conditioner to the global remote monitoring system through Clivet's IMU smart data acquisition terminal, so that professionals can help the customer to implement remote fault diagnosis and analysis, and receive early warning alarms for failures, ensuring the equipment's optimal operation. Customers authorized by Clivet can use a Web browser to view the real-time monitoring data of the air conditioning system.



QuickView

Clivet's QuickView smart software control system is a type of smart software specially developed by Clivet. It features high real-time efficiency, stability, reliability, a high degree of visualization, and strong scalability. It can implement a wide variety of scenarios, such as real-time data monitoring of units, unit equipment management, remote control, curve display, data storage, alarm query, fault diagnosis, uploading data to the cloud, and external data analysis, greatly improving the unit's operation management efficiency and reducing the human input and operation and maintenance costs.





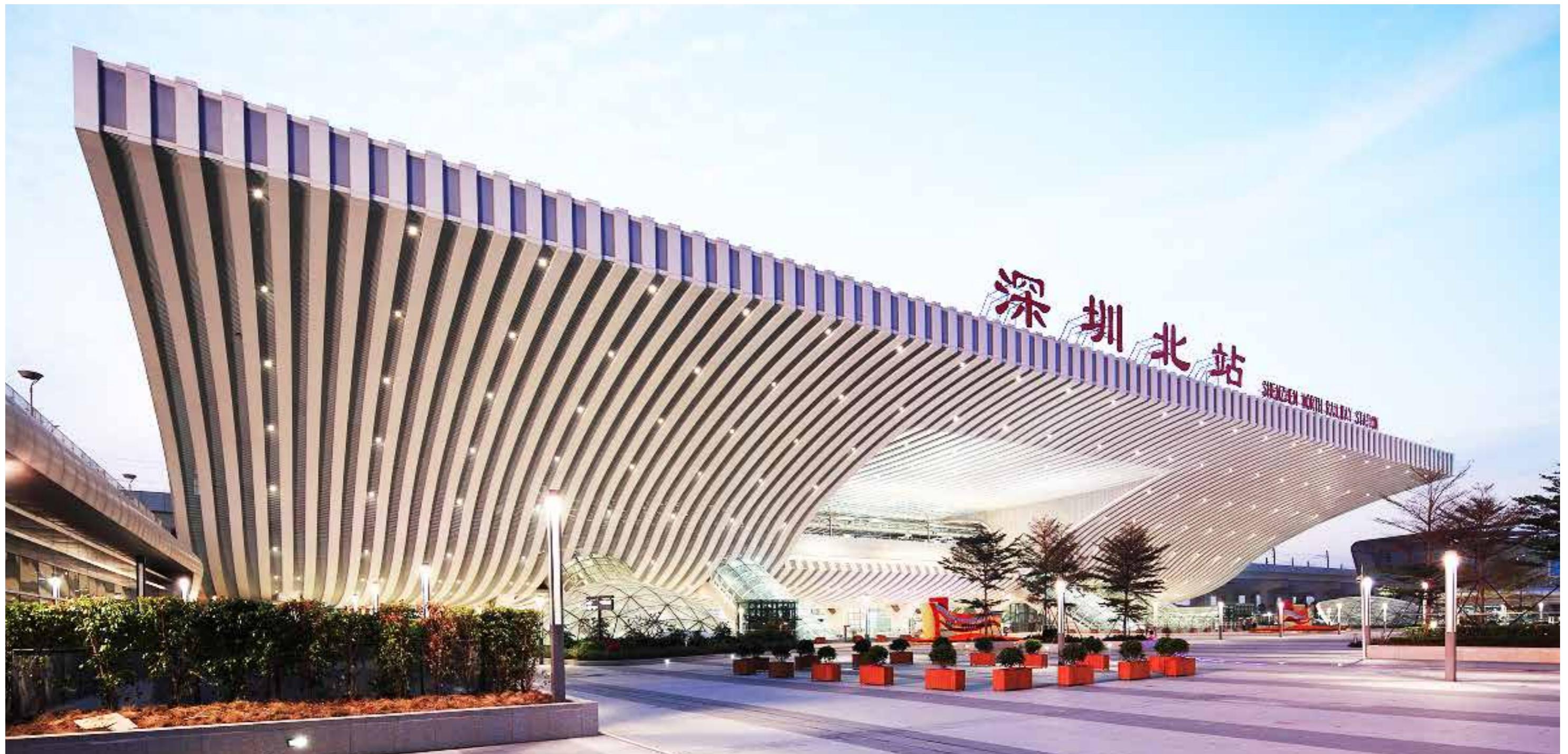
Reference projects



Mozambique Capital Airport

Country: Mozambique
City: Maputo
Total Capacity: 4,000 RT
Outdoor Unit: Air cooled screw chiller & DC Inverter VRF
Indoor Unit: FCU & AHU
Completion Year: 2012





Shenzhen North Railway Station

Country:	China
City:	Shenzhen
Total Capacity:	2,842 RT
Outdoor Unit:	Air cooled screw chiller & DC Inverter VRF
Indoor Unit:	MAHU & AHU & FCU
Completion Year:	2012





Sheraton Bandara Resort Hotel (Five Star)

Country:	Indonesia
City:	Jakarta
Total Capacity:	1,050 RT
Outdoor Unit:	Air cooled screw chiller
Indoor Unit:	FCU
Completion Year:	2011



Rize Hospital (400 Beds)

Country:	Turkey
City:	Rize
Total Capacity:	340 RT
Outdoor Unit:	Air cooled screw chiller
Indoor Unit:	FCU & Fresh Air Processing
Completion Year:	2010



Hub Power Station

Country:	Pakistan
City:	Balochistan
Outdoor Units:	Tropical air cooled screw chiller
Total Capacity:	1,024 RT



Renaissance Hotel (Five Star)

Country:	Thailand
City:	Pattaya
Total Capacity:	512 RT
Outdoor Units:	Air cooled screw chiller
Indoor Units:	AHU
Completion Year:	2017



Energy Station of Hubin New District, Suqian

Country:	China
City:	Suqian
Outdoor Units:	Air cooled scroll chiller
Total Capacity:	1,375 RT



Guiyang International Trade Mart

Country:	China
City:	Guizhou
Outdoor Units:	Air cooled scroll chiller
Total Capacity:	1,820 RT



Shijiazhuang Fifteenth High School

Country:	China
City:	Shijiazhuang
Outdoor Units:	Air cooled scroll chiller
Total Capacity:	2,125 RT