

GT-Large Series

Precision Air Conditioning

GT-Large Room Precision Air Conditioner/ Chilled Water Type 120-200kW

INTRODUCTION

GT-Large series precision air conditioning system adopts international cutting-edge constant temperature and constant humidity technology, which is designed and developed for a precision environment.

This series of products is dedicated to equipments with high precision control requirements of temperature, humidity, and cleanliness and requires equipment continuous operation 24 hours*365 days.

APPLICATIONS

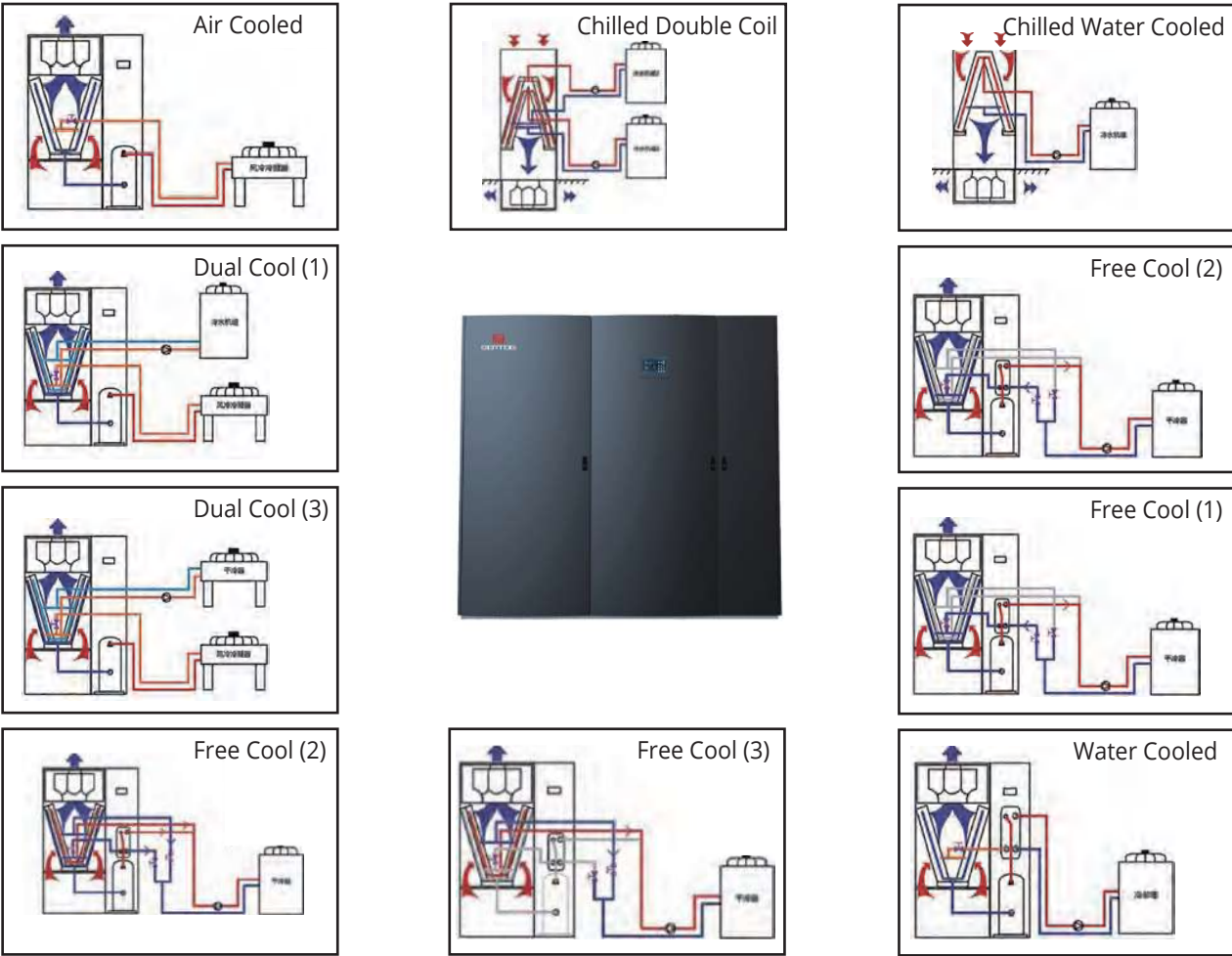
- Computer room and data center
- Switch room and mobile center station in telecommunication
- High-tech environment and lab
- Industrial automation control room and precision manufacturing workshop.
- Standard test room and calibration center
- UPS and battery room
- Test room in the hospital
- Biochemical culture room



MODEL CONFLGURTLO FOR CYBERMASTER

	Item	Code	Description
1	Series Name	CY	GT-Large precision cooling
2	Cooling pattern	A	Air Cooled
		w	Water Cooled
		C	Chilled Water
		D	Dual Cooling
3	Compressor Quantity	S/T/N	Single compressor/dual compressor /no compressor
4	Cooling Capacity	0-9	120-200 KW
5	Air Discharge	D/U	Downflow/ Upflow

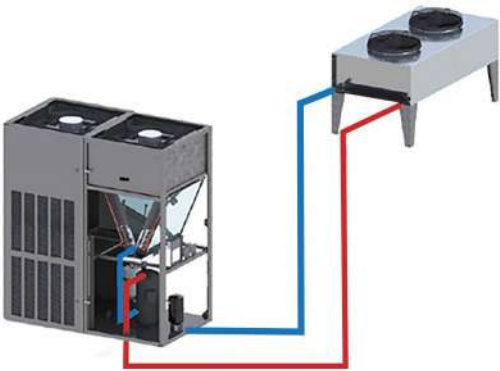
GT-Large air-cooled, water-cooled, glycol-cooled, chilled water cooled , chilled double coil type, CW+DX Dual Cool (air-cooled chilled water, water-cooled chilled water, glycol cool chilled water), There are more than ten kinds of cooling type, such as glycol free cooling, etc., to meet various types of application requirements.



REFRIGERATION MODE

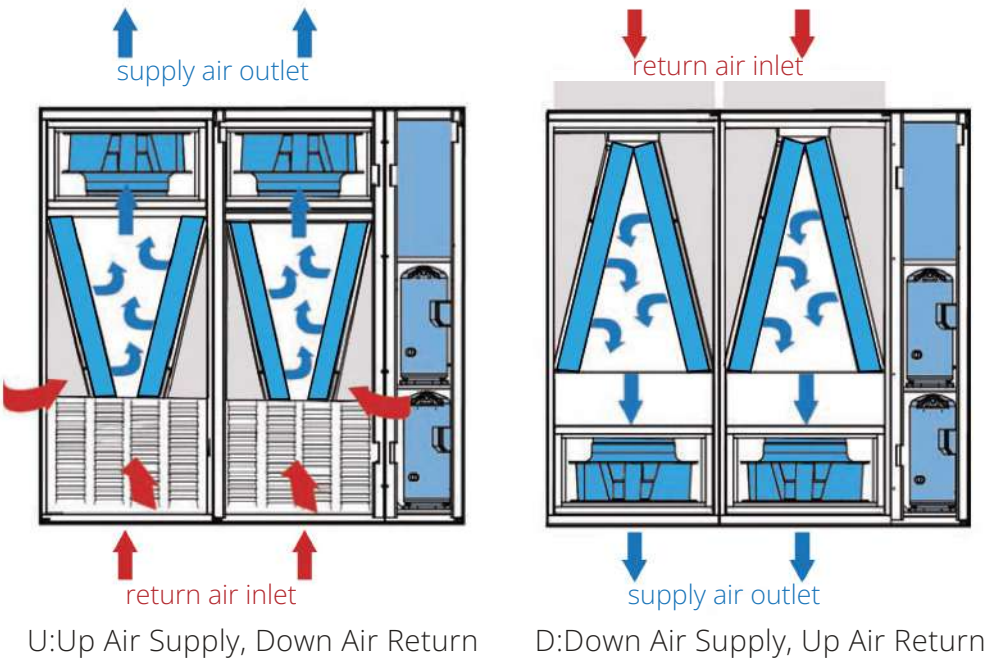
AIR COOLED

The air flow in the room is driven by the unit's indoor fan, during which the indoor air flows through the air conditioning evaporator, transferring heat to the refrigerant, which is transported to the outdoors via the refrigeration system piping and disperses the heat to the outdoor environment through the condenser. The air conditioning unit and the outdoor condenser are connected by closed refrigeration ducts.



AIR DISCHARGE

The GT-Large series units are available in a variety of Air discharge, which can be selected by the user according to the specific use.



Special note: Only two main air supply methods are listed here, for other air supply methods please contact GOTTOGPOWER.

GT-Large Room Precision Air Conditioner

Chilled Water Type 120-200kW

PRECISE TEMPERATURE AND HUMIDITY CONTROL

- Temperature control: 15-32°C (±1°C).
- Humidity control: 30-80% (±5%).
- Wide Temperature Operation: Adaptable to extreme environment from -40°C to 45°C.
- Multi-function mode: single cooling, single heating, single humidification, constant temperature and humidity.

WIDE RANGE OF COOLING CAPACITY

- Cooling range: 120kW~200kW flexible configuration.

HIGH ADAPTABILITY

- Evaporator design: ‘A/V’ type large-area heat dissipation structure, internally threaded copper tubes + hydrophilic aluminium fins.
- Electrode humidifier: can be repeatedly flushed, small size, fast humidification, pure steam output.
- PTC auxiliary heating: semiconductor ceramic multi-level temperature control, overheating protection.
- Cooling volume regulating valve: electric two-way valve precisely regulates the cooling volume.

ENVIRONMENT FRIENDLY REFRIGERANT: R410A

INTELLIGENT COMMUNICATION FUNCTION

- Interactive interface: 7-inch colour touch screen; three-level password authority management.
- Cluster management: support 32 units CAN bus group control; rotation patrol, hot backup, failover, anti-competitive operation.
- Communication and protection: RS485 interface (ModBUS protocol), optional SNMP card/TCP/IP.
- Multi-protection: power supply/leakage/temperature and humidity overrun/component failure.

HIGH RELIABILITY

- Modular combination: segmented transport, avoiding the quality risk of on-site assembly; reduce the footprint and transport difficulties.
- Compact maintenance design: full frontal maintenance, no need for side/rear space; optimises the efficiency of the equipment layout.

HIGH ENERGY EFFICIENCY

- EC fan system: corrosion-resistant and lightweight; 0-100% stepless speed regulation, soft start noise reduction and energy saving.
- High and low voltage protection, anti-liquid strike design.
- Support for chilled water, air-cooled, dual-cooling source, fluorine pumps and other refrigeration methods.

TECHNICAL DATA OF GT-LARGE WATER COOLED

Model	GTMW120	GTMW130	GTMW140	GTMW150	GTMW160	GTMW170	GTMW180	GTMW190	GTMW200
Power	380VAC/3Ph/50Hz								
Total cooling capacity	113.8kW	119.2kW	125.6KW	141.1kW	150.2kW	159KW	167.1kW	174.5KW	185.3kw
Sensible cooling capacity	113.8kW	119.2kW	125.6KW	141.1kW	150.2kW	159KW	167.1kW	174.5KW	185.3kw
water flow	19.6m³/h	20.53m³/h	21.64m³/h	24.31m³/h	25.87m³/h	27.39m³/h	28.79m³/h	30.06m³/h	31.92m³/h
Pressure drop	78.6kPa	86.6kPa	88.5kPa	75.8kPa	81.7kPa	82.9kPa	89.5kPa	93.4kPa	96.5kPa
Qty	2			3					
Electric heating type	PTC electric heater								
Heating capacity (Specifications optional)	9kw			12kw					
Electric heating current	14A			19A					
Humidification type	Electrode humidflfer								
Humidificationcapacity (Specifications optional)	13kg/h								
Humidification current	15A								
Airflow	24600m³/h	25200m³/h	26500m³/h	32600m³/h	35200m³/h	36800m³/h	37400m³/h	38600m³/h	39900m³/h
Air filter	G4								
Indoor unit dlmention (W*D*H)mm	1790*996*1975			2665*996*1975					
Weight	528kg	530kg	570kg	702kg	705kg	738kg	750kg	752kg	753kg

Note:
(1) Air-return temperature 24°C, Relative humidity 50%RH; Outdoor dry bulb temperature 35 °C.
(2) Standard air Discharge: Upflow, Down displacement, others contact GOTTOGPOWER.