JIANGSU DATANG WEISHI TECHNOLOGY CO.,LTD

PRECISION AIR CONDITIONER PRODUCT CATALOG



CONTACT US

sales@dtvs-tech.com

WHATSAPP:+86 18751584735

Jinying Industrial Park, Xishan District, Wuxi City, Jiangsu

WWW.DATANGWEISHI.COM



CONTENTS

PRECISION AIR CONDITIONER

A ENTERPRISE INTRODUCTION

COMPANY PROFILE 01/04

CERTIFICATE 05/06

B PRODUCT CATALOG

DTCBS SERIES 05/08

DTCRA SERIES 09/10

Framework and Components 11/13

DTCLA SERIES 14/16

DTCJA SERIES 17/18



COMPANY PROFILE

Jiangsu Datang Weishi Technology Co., Ltd. is a well-known domestic supplier of intelligent digital computer room equipment. It is a technology company integrating design, R&D, sales and service, and one of the key domestic suppliers of intelligent digital computer room network equipment. The company is committed to realizing functions such as intelligent perception of digital computer rooms, digital-map integration of power management and control, and remote operation and maintenance. The products developed by the company cover a comprehensive intelligent system integrating computer room power management and control, IoT intelligence, digital-map integration and energy consumption management, ensuring the advancement and reliability of smart computer rooms.

We firmly believe that "Professionalism creates the future, and service builds mutual benefit". We are confident that Datang Weishi's professionalism will drive the brand's development and shape its future! In the days ahead, Datang Weishi will provide more professional and comprehensive services to customers in this field.Thank you for your support to Jiangsu Datang Weishi Technology Co., Ltd. Let us work together to build Datang Weishi's tomorrow, and let every one of our customers feel the dedication of the Datang Weishi team. Customer satisfaction is our eternal pursuit!

MARKET SHARE



19%	14%	12%	12%	9%	9%
Germany	USA	India	Canada	Taiwan	UK

SUPPORT OEM/ODM

We are a high-tech enterprise specializing in the R&D, production, and sales of data center infrastructure equipment. Our core products include PDU power strips, server cabinets, network cabinets, and KVM switches, and we are dedicated to providing comprehensive data center solutions for our customers. We actively support both OEM (Original Equipment Manufacturing) and ODM (Original Design Manufacturing) cooperation models. We possess end-to-end service capabilities from product design, mold development, injection molding production, product assembly, to final validation, enabling us to provide flexible and diverse customized solutions tailored to our clients' specific requirements. Our production base is located in the Jinying Industrial Park, Northeast Tang, Xishan District, Wuxi City, featuring a modern factory plant of 3,000 square meters. It is rationally organized with dedicated areas for high-precision mold R&D and production, a 100,000-class dust-free injection molding workshop, a 10,000-class product assembly workshop, and professional physical/chemical laboratories. We consistently adhere to technological innovation, utilizing advanced production equipment and manufacturing processes. Our quality management system is ISO 9001 certified, and our products have obtained national CCC certification, ensuring our entire production process from raw materials

10000m²
factory area

200000+
products annually

50+
exported to countries



WORKSHOP PRODUCTION PROCESS









DTCBS SERIES
Small Precision Air Condition



PRODUCT OVERVIEW

The DTCBS series of small and medium-sized precision air conditioners are specifically designed for the environment of small and medium-sized data rooms, providing a stable and reliable precision environment for small and medium-sized data centers. This series of air conditioners features large air volume, small enthalpy difference, high sensible heat ratio, high energy efficiency ratio, and high reliability. It can provide 24-hour uninterrupted operation guarantee throughout the year for small and medium-sized data centers. The cooling capacity of the CBS series ranges from 4kW to 20kW, meeting different environmental temperature and humidity control requirements.

SCOPE OF APPLICATION


Data Rooms


Data Centers


Substations


Storage rooms



5G base stations


Equipment rooms with high T&H precision control reqs





High Efficiency and Energy Saving

1.The design of large air volume, small enthalpy difference and high sensible heat ratio meets the environmental requirements of computer rooms and provides a stable temperature and humidity environment for them.

2.High-efficiency compressors and EC fans, matched with the precise throttling design of electronic expansion valves, maximize energy efficiency.

3.The outdoor fan adopts stepless speed regulation control, matching the system's condensing pressure operation to reduce the overall energy consumption of the unit.

4.The control system has a group control function, enabling centralized control of multiple devices to achieve overall energy saving of the computer room's refrigeration equipment.

5.R410a refrigerant is used as standard, which is environmentally friendly and efficient.



Stable and Reliable

1.Use well-known brand components, with stable and reliable component and system design.

2.A complete alarm protection function system realizes multi-level alarm protection such as power protection, water leakage protection, temperature and humidity over-limit, and system component protection.

3.Stable operation with ultra-wide voltage input, equipped with power protection functions such as phase sequence detection.

4.Intelligent automatic restart function after power restoration.



Intelligent Control

1.A color touch display screen that displays the system function status and component operation in real time.

2.The control system has multi-level password protection and can intelligently determine and distinguish alarm information of different degrees.

3.It has group control functions such as rotation and backup, enabling automatic switching between the main unit and the standby unit at set times.

4.It adopts a standard RS485 monitoring interface and can provide the standard ModBUS protocol for free.

5.It can realize remote setting and monitoring of the unit's operation status and alarm



Flexible and Diverse

1.Equipped with standard threaded quick connectors, enabling fast on-site installation without

2.Match the best air supply method according to on-site conditions.

3.Select auxiliary heating or humidification function configuration according to environmental

INDOOR UNIT PARAMETERS

DT-CBS	006			008			013			017			020		
Function	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity
Air Supply Mode	F			F			F/D			F/D			F/D		
Power Supply Type	220Vac/1Ph/50Hz			380Vac/3Ph/50Hz			380Vac/3Ph/50Hz			380Vac/3Ph/50Hz			380Vac/3Ph/50Hz		
Performance Parameters															
Total Cooling Capacity (Kw)	6.0			7.6			13.2			17.2			20.8		
Sensible Cooling Capacity (Kw)	5.6			7.1			12.2			15.7			18.7		
Compressor Parameters															
Compressor Type	Rotor type			Rotor type			Scroll type			Scroll type			Scroll type		
Refrigerant type	R410A														
Number Of Compressors	1			1			1			1			1		
Fan Parameters															
Fan Type	DC EC centrifugal fan														
Number Of Fans	1			1			1			1			1		
Air Volume (M^3/H)	1900			2400			3800			5300			5700		
External Static Pressure (Pa)	Standard residual pressure is 20Pa, adjustable from 0 - 400Pa														
Electric Heating Parameters															
Electric Heating Type	PTC electric heater														
Electric Heating Capacity (Kw)	——	3	3	——	3	3	——	3	3	——	3	3	——	3	3
Electric Heating Capacity (Kw)	——	1	1	——	1	1	——	1	1	——	1	1	——	1	1
Electrode Humidification Parameters															
Humidity Type	electrode humidifler														
Ehumidity Capacity Kg/H	——	——	3	——	——	3	——	——	3	——	——	3	——	——	3
Type Of Throttling	electronic expansion valve														
Airstrainer	G4 Plate filter screen														
Indoor Unit Noise Dba	65			65			66			67			68		
Unit Connection Pipe															
Add Humidifier Inlet Pipe In	G1/2														
Condensate Drain Pipe Φmm	19														
Lumen Interface Size Φmm	12.7			12.7			15.88			15.88			19.05		
Maximum Operating Current A	9.52												12.7		
Electraical Parameters															
Maximum Operating Current	12.5	30.5	41	11	16	20	13.6	18.6	22.6	19	25	29.5	21	28.5	32.5
Outline Dimension	600*510*1900			600*580*1900			600*580*1900			750*660*1900			750*660*1900		
Weight Kg	98			162			170			206			209		
Model Ly-Cy	0081			0121			0191			0241			0291		
Number Of Matches	1			1			1			1			1		

OUTDOOR UNIT PARAMETERS

DT-CY	006	008	013	017	020
Power Supply Type	220Vac/1Ph/50Hz				
Way To Install	vertical			Vertical or horizontal	
Power supply type	220Vac/1Ph/50Hz	380Vac/3Ph/50Hz	380Vac/3Ph/50Hz	380Vac/3Ph/50Hz	380Vac/3Ph/50Hz
Condensing Fan Performance					
Type	Single phase asynchronous motor + axial flow fan blade			Single phase axial flow fan	
Number Of Fans	1	1	2	1	1
Blowing Rate M^3/H	3000	4000	7000	8500	9000
Interior input Power Kw	0.16	0.17	0.38	0.6	0.61
Input Current on A	0.62	0.65	1.7	3.4	3.4
Mode Of Speed Regulation	——	Variable speed control		——	——
Unit Noise dBA	53	55	58	65	68
Dimension	960*390*800	960*390*800	960*390*1270	1115*1065*520	1115*1065*545

① Nameplate working condition of heat exchange: air inlet temperature 35℃, condensation temperature 50℃;
② The 241 and 291 external units do not include the height of the support feet, which are 480mm high.

DTCRA SERIES

Large and medium sized precision conditioning

PRODUCT OVERVIEW

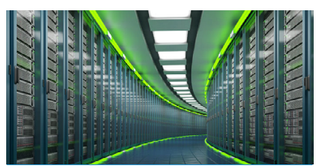
The DTCRA series of large and medium-sized air-cooled precision room air conditioners provide cooling capacity ranging from 25kW to 100kW, utilizing environmentally friendly R410a refrigerant. The CRC series offers precision chilled water room air conditioning with cooling capacities spanning 30kW to 200kW. Featuring a modular design, the CRA series enables flexible configuration through different module combinations to achieve customized cooling outputs. Multiple supply and return air modes are available for selection and matching according to on-site conditions



APPLIED RANGE



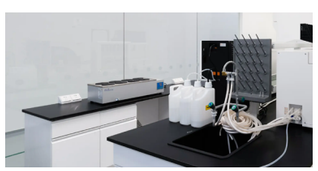
Data Rooms



Data Centers



Substations



Storage rooms

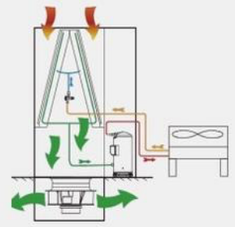


5G base stations



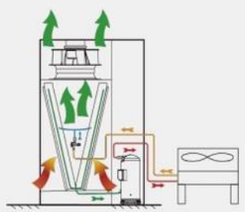
Equipment rooms with high T&H precision control reqs

WORKING PRINCIPLE



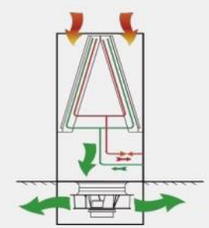
Air-cooled (RA) Down-supply Air Unit





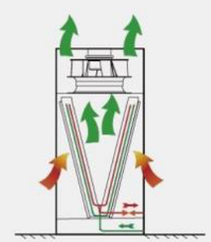
Air-cooled (RA) Top-supply Air Unit





Chilled Water (RC) Down-supply Air Unit





Chilled Water (RC) Top Supply Air Unit



HIGH-QUALITY FRAMEWORK AND COMPONENTS



PRODUCT CONFIGURATION

HIGH PRECISION CONTROL SYSTEM

7-inch color touch screen with high precision control and multiple group control modes to realize 32 units in group control, which is accurate and reliable

VORTEX COMPRESSOR

Stable designs achieve high reliability and durability, facilitating repair and maintenance. Low noise, low vibration and high energy efficiency can be achieved throughout the operation.

OUTDOOR UNIT CONFIGURATION

High efficiency axial flow fan, the fan has no speed regulation, to ensure the system runs stably in a wide temperature range. Optional EC fan configuration, energy saving and efficient.

EC FAN

The corrosion-resistant blades made of aviation composite are matched with brushless DC motor, which is energy-saving, efficient and low noise.

SELECT ACCESSORIES (AIR COOLING)

1.Longitudinal joint management **2.**Low temperature options **3.**Leakage with belt **4.**Lightning protection **5.**Lightning protection **6.**High density outdoor unit

AUXILIARY HEATING CONFIGURATION

- PTC electric heating, aluminum alloy fin heating fast, can achieve automatic temperature adjustment and uniform heating.
- Overtemperature protection device is configured, safe and reliable.

THROTTLE DEVICE

- Use electronic expansion valve
- Precise flow control to ensure stable operation of the system in various environments.

V ELECTRIC TWO-WAY REGULATING VALVE

The refrigeration capacity is adjustable and the internal temperature can be controlled accurately.

HUMIDIFICATION CONFIGURATION

The electrode has large humidification capacity, high efficiency and automatic flushing function.

SELECT ACCESSORIES (CHILLED

1.Floor pressure differential detection **2.**Electric three-way valve **3.**Leakage with belt **4.**Lightning protection **5.**Lightning protection

ROOM-LEVEL AIR COOLING PA-RAMETERS

MODEL DT CRA**URH/DRH/BRH	025	030	035	040	045	050	042	052	062	072	082	092	102
Total Cooling Capacity Kw	25	30	36	40	45	50	40	51	62	72	81	92	102
Visible Cooling Capacity Kw	22.4	28	32.4	35.9	41.3	46.4	35.9	46.8	55.3	65.3	73.4	83.8	94.3
Fan Type	EC Fan												
Number Of Fanss	1								2				
Blowing Rate m^3/h	7800	9200	10500	11500	12800	13500	11800	15600	18400	21000	23000	25600	27000
Exhaust Pressure pa	treetop					Nozzle residual pressure	20pa,20~300pa ok		transfer				
Air Filter	G4												
Compressor Tyle	Vortex Compressor												
Number Of Compressor	1							2					
Type Of Refrigerant	R410A												
Electric Of Compressors Type	PTC ELECTRICAL HEATING												
Electrical Heating Kw	6	6	6	9	9	9	9	9	9	9	9	15	15
Electric Heating Current A	10	10	10	14	14	14	14	14	14	14	14	23	23
Type Of Humidifier	Electricity						Add superheated steam	WET					
Electrode Humidification Kg/H	5	5	5	8	8	8	8	13	13	13	13	13	13
Electrode Humidification	6	6	6	10	10	10	10	15	15	15	15	15	15
Power Supply Type	38						0V/50Hz 3N~						
Full Load Curren A	37.9	41	47.2	53.9	60	61.6	58.3	66.6	77.5	89.8	100.4	115.4	118.6
Condensate Drainage Dn Mm	G1/2"												
Refrigerant Gas Pipe Mm	18												
Coolant Liquid Pipe mm	18												
Tablet outdoor unit													
Model DT CY**A1SP	0451	0522	0582	0662	0742	0832	0281	0451	0522	0582	0662	0742	0832
Quantity	1						2						
Compact outdoor unit													
Model DT CY**A1SP	0441	0551	0551	0661	0771	0881	0882	0882	1102	1102	1322	1542	1762
Quantity	1												

OUTDOOR UNIT PARAMETERS

DT CY**A1SP	0291	0351	0451	0522	0582	0662	0742	0832	0893	0963
Input Voltage	220V/1P/50Hz									
Dimen-sions	1115*1065 *545	1225*1165 *545	1315*1165 *545	2025*1015 *520	2325*1065 *520	2125*1065 *545	2325*1165 *545	2425*1165 *545	2625*1165 *545	3240*1165 *545
Weight Kg	100	112	115	158	172	182	206	213	252	290
DT CYA1SP**	**0441**	**0551**	**0661**	**0771**	**0881**	**0882**	**1102**	**1322**	**1542**	**1762**
Input Voltage	380V/3P/50Hz									
Dimen-sions	1100*1100 *1907	1225*1165 *545	1315*1165 *545	2025*1015 *520	2325*1065 *520	2125*1065 *545	2325*1165 *545	2425*1165 *545	2625*1165 *545	3240*1165 *545

HIGH-QUALITY FRAMEWORK AND COMPONENTS

DT-CRC	030	040	050	060	070	080	090	100	110
Total Cooling Capacity Kw	28.5	39.5	47.8	55.8	65.2	78.5	85.3	95.3	104.5
Visible Cooling Capacity Kw	28.5	39.5	47.8	55.8	65.2	78.5	85.3	95.3	104.5
Water Flow M^3/H	4.91	6.80	8.23	9.61	11.23	13.52	14.69	16.42	18
Differential Pressure Kpa	56	53	64	68	74	54.8	61.2	67.6	70.9
Quantity			1				2		
Blowing Rate M^3/H	8900	9700	11600	12500	13300	18000	21200	23000	24000
Air Filter					G4				
Electrode Humidification Kg/H (Specifications Optional)	5	5	5	5	5	13	13	13	13
Electrode Humidification Current A	6	6	6	6	6	15	15	15	15
Electric Heating Current A	10	10	10	10	10	14	14	14	14
Electric Heating Kw (Specifications Optional)	6	6	6	6	6	9	9	9	9
Power Supply Type					380Vac/3Ph/50Hz				
Full Load Current A ③	5	5	5	5	5	10	10	10	10
Dimensions			915*983*1975mm				1790*983*1975mm		
Weight Kg	254	283	285	286	305	476	477	478	526
Take Over Size DN	32	40	40	40	50	50	50	50	50

DT-CRC	120	130	140	150	160	170	180	190	200
Total Cooling Capacity Kw	113.8	119.2	125.6	141.1	150.0	159.0	167.1	174.5	185.3
Visible Cooling Capacity Kw	113.8	119.2	125.6	141.1	150.2	159.0	167.1	174.5	185.3
Water Flow M^3/H	19.60	20.53	21.64	24.31	25.87	27.39	28.79	30.06	31.92
Differential Pressure kPa	78.6	86.6	88.5	75.8	81.7	82.9	89.5	93.4	96.5
Quantity	2	2	2	3	3	3	3	3	3
Blowing Rate m^3/h	24600	25200	26500	32600	35200	36800	37400	38600	39900
Air Filter					G4				
Electrode Humidification Kg/H (Specifications Optional)	13	13	13	13	13	13	13	13	13
Electrode Humidification Current A	15	15	15	15	15	15	15	15	15
Electric Heating Kw (Specifications Optional)	9	9	9	12	12	12	12	12	12
Electric Heating Current A	14	14	14	19	19	19	19	19	19
Power Supply Type					380Vac/3Ph/50Hz				
Full Load Current A ③	10	10	10	15	15	15	15	15	15
Dimensions		1790*983*1975mm				2665*983*1975mm			
Weight Kg	528	530	570	702	705	738	750	752	753
Take Over Size DN	50	50	50	50	50	50	50	50	50

DTCLA SERIES

Row - level precision air conditioner

PRODUCT OVERVIEW

The DTCLA series in - row precision air conditioners are specially designed for high - heat - density computer rooms and micro - module configurations. They can cool close to heat sources, reduce the distance between supply and return air, increase the return air temperature, and the cooling capacity can be adjusted and output as the load changes. They feature high sensible heat ratio and high energy efficiency ratio. With full - frequency conversion design and electronic expansion valves to accurately adjust the cooling capacity, they can adapt to different load changes. They achieve 30% - 100% variable capacity output and precise temperature control. A 7 - inch color touch screen displays the operating status of all components, and can realize intelligent group control of up to 32 units to ensure the stable operation of the entire module. According to load changes, the speed of EC fans is dynamically adjusted, and multiple control methods are optional to ensure maximum energy saving of the system. It is equipped with an RS485 interface and water leakage alarm.



SCOPE OF APPLICATION



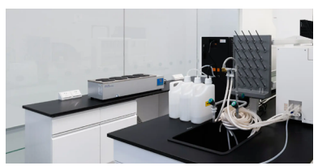
Data Rooms



Data Centers



Substations



Storage rooms



5G base stations



Equipment rooms with high T&H precision control reqs

Row - level air - cooling parameters

DT-CLA	012			025			030			040			050			060		
Function	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity	Cooling only	Cooling + Elec heating	Constant temp & humidity
Air Supply Mode	F/S			F/S			F			F			F			F		
Power Supply Type	380Vac/3Ph/50Hz																	
Performance parameters																		
Total Cooling Capacity (Kw)	12.2			26.3			30			40.2			50.2			61		
Sensible Cooling Capacity (Kw)	12.2			26.3			30			40.2			50.2			61		
Heating Capacity Kw	——	2	2	——	3	3	——	6	6	——	6	6	——	6	6	——	6	6
Compressor parameters																		
Compressor Type	Rotor type			Rotor type			Scroll type			Scroll type			Scroll type			Scroll type		
Refrigerant Type:	R410A																	
Fan parameters																		
Fan Type	DC EC centrifugal fan																	
Air Volume (M^3/H)	3200			5000			6600			8800			11000			12500		
Expansion Device Form	Electronic expansion valve																	
Indoor Static Pressure (Pa)	The standard pressure is 20Pa, adjustable from 0 to 300Pa																	
Electric heating parameters																		
Electric Heating Form	PTC electric heater																	
Electric Heating Capacity (Kw)	——	2	2	——	3	3	——	6	6	——	6	6	——	6	6	——	6	6
Humidifier parameters																		
Humidification Form	Wet film humidifier																	
Maximum Humidification Capacity (Kg/H)	——	——	1.5	——	——	1.5	——	——	3	——	——	3	——	——		3		
Flow Control Form	Electronic expansion valve																	
Flow Control Form	G4 panel filter																	
Unit connecting pipes																		
Humidifier Water Inlet Pipe (In)	G 1/2																	
Humidifier Water Inlet Pipe (In)	G3/4																	
Refrigerant Gas Pipe (Φmm)	19																	
Refrigerant Gas Pipe (Φmm)	15.88			19.05			19.05			22			22			22		
Refrigerant Liquid Pipe (Φmm)	9.52			15.88			15.88			15.88			19.05			19.05		
Electrical parameters																		
Max. Oper. Curr. (Rounded, A)	13	24	24	25	41	41	29	44	44	33	48	48	43	55	55	48	59	59
Power Cord Specification (Mm^2)	5*2.5	5*4	5*4	5*4	5*6	5*6	5*4	5*6	5.6	5*4	5*10	5*10	5*6	5*10	5*10	5*6	5*10	510
Indoor unit structure parameters																		
Overall Dimensions(Mm)	300(W)*1200(D)*2000(H)						600(W)*1200(D)*2000(H)											
Weight (kg)	185	188	190	205	209	211	242	248	252	253	259	263	298	304	308	320	326	330
DT-CY¨A1SP	0191			0451			0522			0662			0832			0893		
Quantity	1			1			1			1			1			1		
Compact outdoor unit																		
DT-CY¨A3SC	0191			0441			0551			0661			0771			0881		
Quantity	1			1			1			1			1			1		

① Working condition: Indoor air dry - bulb temperature 37°C, relative humidity 24%, outdoor air dry - bulb temperature 35°C.
② For unlisted parameters or other customized requirements, please contact us.
③ The maximum current of the unit's standard configuration (including heating and humidification) shall be subject to on - site electrical parameters.

Outdoor unit parameters

DT-CY¨A1SP	0191	0451	0522	0662	0832	0893
Input voltage	220V/1P/50Hz					
Weight	65	115	156	182	213	252
Overall dimensions	930*385*1260	1315*1165*545	2025*1015*520	2125*1065*545	2425*1165*545	2625*1165*545
Compact outdoor unit						
DT-CY¨A3SC	**0191**	**0441**	**0551**	**0661**	**0771**	**0881**
Input voltage	380V/3Ph/50Hz					
Overall dimensions	800*800*1462	1100*1100*1907	1100*1100*1950		1300*1100*1950	1300*1100*2006
Weight (kg):	142	157	177		221	234

Row - level chilled water parameters

DT-CLC	030			060		
Function	Cool only;	Cool only + Elec heat;	Const temp & hum;	Cool only;	Cool only + Elec heat;	Const temp & hum
Air Supply Mode	Front air supply					
Input Power Form	380V/3Ph/50Hz					
Performance parameters						
Cooling Capacity (Kw)	30.6			61.1		
Refrigerating Capacity (Kw)	29.7			58.05		
Heating Capacity （Kw）	——	3	3	——	6	6
Humidification Capacity (Kg)	——	——	1.5	——	——	3
Fan parameters						
Fan Type	Backward - inclined centrifugal EC fan					
Air Volume (m^3/h)	5000			11000		
Number Of Fanss	6			2		
Indoor Static Pressure (Pa)	Standard static pressure is 20Pa, adjustable within the range of 0 - 20Pa.					
Electric heating parameters						
Electric Heating Form	PTC electric heater					
Electric Heating Capacity (Kw)	3			6		
Humidifier parameters						
Humidification Form:	Wet film humidifier					
Maximum Humidification Capacity (Kg/H)	1.5			3		
Unit connecting pipes						
Humidifier Water Inlet Pipe (In)	G 1/2					
Humidifier Water Inlet Pipe (In)	G3/4					
Refrigerant Gas Pipe (Φmm)	17					
Refrigerant Gas Pipe (Φmm)	25					
Refrigerant Liquid Pipe (Φmm)	32			32		
Overall dimensions and weight of the unit						
dimensions(mm)	300(W)*1200(D)*2000(H)			600(W)*1200(D)*2000(H)		
Weight (kg)	190			290		

① Design working condition: 35°C, 28% RH, inlet and outlet water temperature 10°C/15°C.
② Standard static pressure is 20Pa, adjustable within the range of 0 - 20Pa. For other static pressure requirements, please consult us.
③ The standard configuration of the unit (excluding heating and humidification), please refer to on - site electrical distribution.
④ For other unlisted or customized requirements, please contact us.

DTCJA SERIES

Desktop precision air conditioner

PRODUCT OVERVIEW

In the digital era, integrated cabinets, micro-modules, and high-heat-density data centers face severe thermal management challenges, as high-performance equipment like servers generates massive heat, threatening operation stability and driving up cooling energy consumption.
The Datangewishi DTCJA Series Rack-Style Air Conditioner is a cabinet-level temperature control solution designed for these scenarios. Positioned adjacent to heat sources in cabinets, it precisely manages the high sensible heat from equipment. This design effectively prevents localized hot spots, shortens air distribution distance, enhances return air temperature, and improves energy efficiency ratio. With notable energy-saving effects, it actively supports the sustainable development of green data centers.





Applied Range

- Integrated cabinet
- Single panel cabinet
- micromodule
- Medium and high temperature density unit room
- Modular data center
- The IT cabinet where the blade server is placed

Indoor Unit Parameters

DT-CJA	0003	0005	0007	0012
Number,function	Five,single-phase	Two single-phase units	Three,single-phase	Five,single-phase
Performance parameter				
Refrigerating output kW	3.5	5	7.5	12.5
visible cooling capacity kW	3.5	5	7.5	12.5
Blowing rate m^3/h	800	1500	1600	2300
Sensible heat ratio	100	100	100	100
Electric heating kW (optional)	1	1	2	3
Maximum operating current A	15	19	25	37
Power cable specification mm²	3X2.5	3X2.5	3X4	3X6
Indoor/outdoor unit shut-off valve				
The refrigerant gas pipe is mm	12.7	12.7	12.7	15.88
Refrigerant liquid pipe θmm	9.52	9.52	9.52	9.52
Indoor unit structure parameters(withd*depth*height)				
Outline dimension	442*714*218(5U)	442*714*218(5U)	442*714*351(8U)	442*714*440(10U)
Weight of indoor unit in kg	23	28	32	38

Outdoor Unit Parameters

DT-CJA	3005	3006	3008	3013
power supply type	220Vac/1Ph/50Hz			
Way to install	vertical			
Mode of speed regulation	variable speed control			
Unit noise dBA	54	55	56	58
Rated current A	7	10	11.5	15
Power cable specification mm²	4X1.5	4X2.5	4X2.5	4X4
Communication cable specifications	3X1	3X1	3X1	3X1
Outline dimension	840 X 285 X 610	830 X 310 X 720	880 X 360 X 800	930 X 385 X 1260
Weight kg	35	38	48	72

Integrated Rack Air Conditioning

DT-CJA	3003
Number, function	Five,single-phase
refrigerating output kW	3.5
Visible cooling capacity kW	3.5
Air volume of evaporator side fan m^3/h	680
Condenser side fan air volume m^3/h	1050
sensible heat ratio%	100
Electric heating kW (optional)	1
Maximum operating current A	16
Power cable specification mm²	3 x 2.5
outline dimension	442 x 1000 x 352(8U)