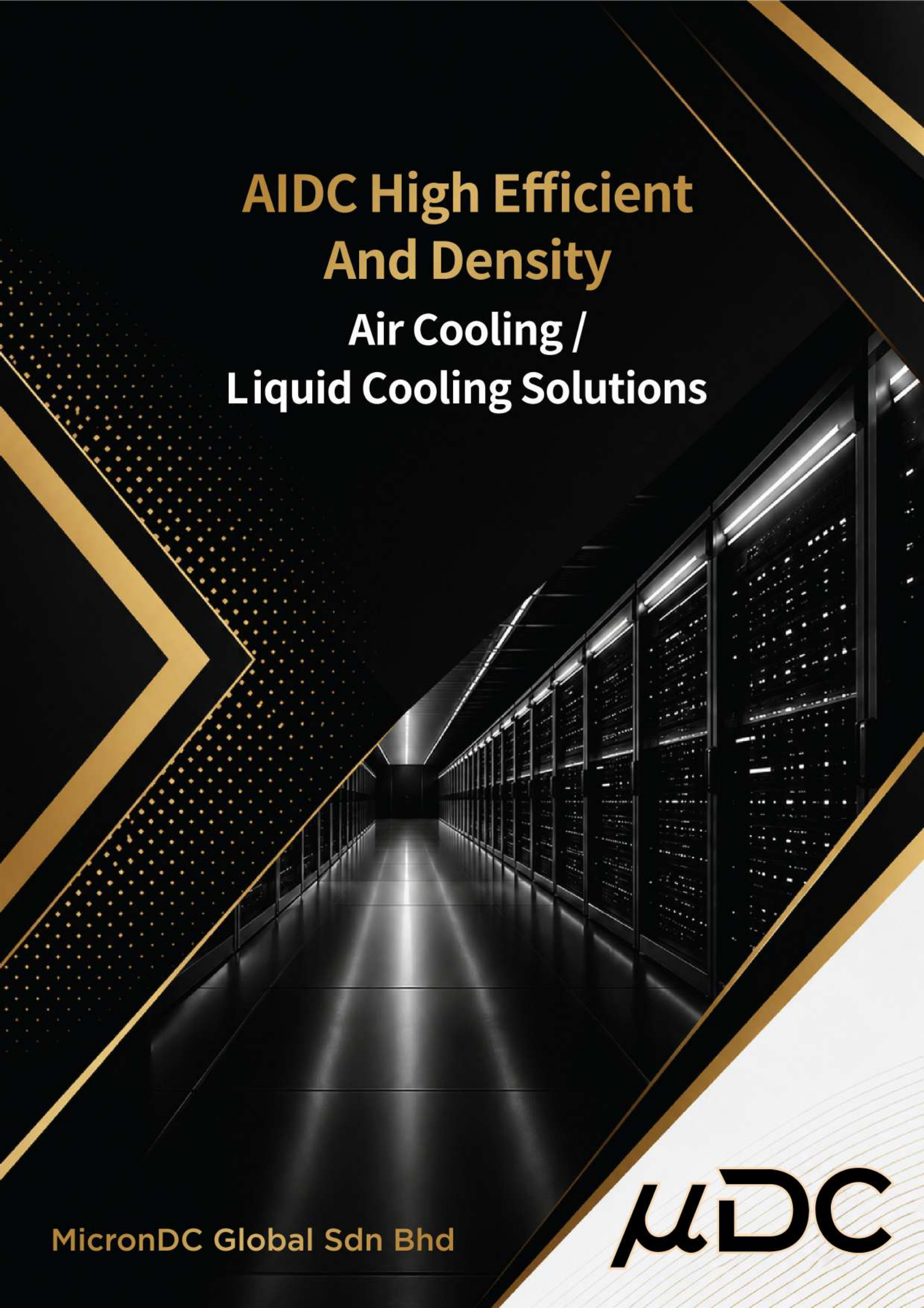




AIDC High Efficient And Density

Air Cooling / Liquid Cooling Solutions

MicronDC Global Sdn Bhd

μDC

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DLC Solution

Cabinet (In Row) CDU

Features

- ◆ Dual pump redundant design allows for automatic switchover to the backup pump in case of a single pump failure.
- ◆ High-efficiency stainless steel plate heat exchanger with compact structure and high corrosion resistance.
- ◆ All internal piping is made of stainless steel to ensure the system is clean and pollution-free.
- ◆ Internationally renowned brand PLC controller for secure operation.
- ◆ Intelligent PLC control program for real-time monitoring and control to ensure the safe and stable operation of the unit.
- ◆ Expert-level fault diagnostics for easy maintenance.
- ◆ Supports Modbus RTU, with an optional TCP/IP configuration.
- ◆ Easy-to-operate color human-machine interface for convenient monitoring of unit operation by management personnel.
- ◆ The touch screen can be set with multiple levels of passwords to protect information security.



Specification

Model		MWW300-65A	MWW600-80AW	MWW600-80AN	MWW1200-100A	MWW2400-125A
Cooling Capacity	kW	300	600	600	1200	2400
Secondary Inlet	℃	40				
Secondary Flow Rate	m³/h	26	52	52	90	180
Secondary Pipe Diameter	DN	DN65	DN80	DN80	DN100	DN125
ATD	℃	5		4		
Filtration	μm	50		50/25		
Secondary Differential Pressure Output	kPa	≥120				
Pumps	N/A	1+1				2+1
Primary Inlet	℃	35		36		
Primary Flow Rate	m³/h	26	52	52	90	180
Primary Pipe Diameter	DN	DN65	DN80	DN80	DN100	DN125
Rated Power Consumption	kW	4.5	8	10.5	22.5	44.5
Primary Pressure Drop	kPa	≤100		≤120	≤150	
Power Supply	/	AC 3/N/PE 380~480V 50/60HZ DC 800V				
Dimensions	Width	mm	600	900	600	900
	Depth	mm	1200			
	Height	mm	2000			2200

In Rack CDU

Features

- ◆ Dual pump redundant design allows for automatic switchover to the backup pump in case of a single pump failure.
- ◆ High-efficiency stainless steel plate heat exchanger with a compact structure and high corrosion resistance.
- ◆ Internationally renowned brand PLC controller ensures safety and reliability.
- ◆ Intelligent PLC control program for real-time monitoring and control to ensure the safe and stable operation of the unit.
- ◆ Expert-level fault diagnostics for easy maintenance and operation.
- ◆ Supports Modbus RTU, with an optional TCP/IP configuration.
- ◆ User-friendly color human-machine interface for convenient monitoring of unit operation by management personnel.
- ◆ The touch screen can be set with multiple levels of passwords to protect information security.



Specification

Model			MWW30-20C	MWW50-25C	MWW120-32C	MWW150-32C
Cooling Capacity		kW	30	50	120	150
Secondary Inlet		℃	40			
Secondary Flow Rate		m³/h	45	72	150	
Secondary Pipe Diameter		DN	DN20	DN25	DN32	
ATD		℃	5		4	
Filtration		μm	50			
Secondary Differential Pressure Output		kPa	≥100			
Pumps		N/A	1+1			
Primary Inlet		℃	35		36	
Primary Flow Rate		m³/h	45	72	150	
Primary Pipe Diameter		DN	DN20	DN25	DN32	
Rated Power Consumption		kW	0.5	0.8	1.8	
Primary Pressure Drop		kPa	≤100		≤120	
Power Supply		/	AC 1/PE 100~240V 50/60HZ DC 120V~400V DC 48V			
Dimensions	Width	mm	445			
	Depth	mm	900			
	Height	mm	175 (4U)			

➤ Prefabricated Piping

**3D Modeling****Factory Prefabrication**

Features

- ◆ The company possesses advanced fully automatic stainless steel welding equipment, laser cutting, automatic punching machines, and other precision processing equipment, pickling and passivation equipment, and laser cleaning equipment, ensuring the cleanliness and aesthetic appeal of stainless steel products.
- ◆ Various testing methods such as pressure testing, penetrant testing, and helium testing are employed to ensure product sealing;
- ◆ Factory prefabrication allows for rapid on-site assembly, reducing construction workload.
- ◆ It can meet customized needs for various scenarios.



Liquid Cooling Distribution Manifold



- ◆ Made of 304 stainless steel material.
- ◆ Branch connectors all use drip-free quick connectors.
- ◆ Reasonably designed, with a flow unevenness of less than 10% in each branch circuit.

Chilled Water High Density Air Cooling Solution

Mini Fan Wall

Features

- ◆ The air wall product features an integrated design of heat exchangers and fans for easy installation and deployment.
- ◆ Equipped with DC small fans, it is compact and convenient for maintenance.
- ◆ Adjustable fan speed and water valve opening according to demand, allowing for dynamic cooling capacity adjustment.
- ◆ Intelligent control program for real-time monitoring and control to ensure the safe and stable operation of the unit.
- ◆ Expert-level fault diagnostics for easy maintenance and operation.
- ◆ Supports Modbus RTU, with an optional TCP/IP configuration.

Scenarios

- ◆ Medium to large data centers/High-density server rooms/Cold plate liquid-cooled server rooms.



Specification

Model			MWA-700W
Cooling Capacity	kw		70
Inlet/Outlet Liquid Temperature	°C (°F)		20/28 (68/82.4)
Inlet/Return Air Temperature	°C (°F)		24/38 (75.2/100.4)
Airflow	m ³ /h		18000
Rated Power	kW		2.5
Static Pressure of Air Delivery	Pa		30
Pipe Connections	DN		DN40
Fan Hot Swapping	/		Support
Power Supply System	/		AC 1/PE 100~240V 50/60Hz AC 3/N/PE 380~480V 50/60Hz
Filtration	/		G2
Dimensions	Width	mm (inch)	1200 (47)
	Depth	mm (inch)	350 (14)
	Height	mm (inch)	2000/2200 (78/87)

Chilled Water Rear Door Heat eXchanger

Features

- ◆ Features an integrated design of heat exchangers and fans for easy installation and deployment.
- ◆ Adjustable fan speed and water valve opening according to demand, allowing for dynamic cooling capacity adjustment.
- ◆ Intelligent control program for real-time monitoring and control to ensure the safe and stable operation of the unit.
- ◆ Expert-level fault diagnostics for easy maintenance and operation.
- ◆ Supports Modbus RTU, with an optional TCP/IP configuration.

Scenarios

- ◆ Medium to large data centers/High-density server rooms/Cold plate liquid-cooled server rooms.



Specification

Model		MWA-300D	MWA-500D
Cooling Capacity	kW	30	50
Inlet/Outlet Liquid Temperature	°C	15/23 (59/73.4)	
Inlet/Return Air Temperature	°C (°F)	38 (100.4)	
Airflow	m³/h	6600	10000
Rated Power	kW	1.3	1.8
Maximum Allowable Power	kW	1.5	2.0
Static Pressure of Air Delivery	Pa	30	
Pipe Connections	DN	DN32	
Fan Hot Swapping	/	Support	
Power Supply System	/	AC 1/PE 100~240V 50/60Hz	
Dimensions	Width	mm (inch)	600 (24)
	Depth	mm (inch)	200 (8) 350 (14)
	Height	mm (inch)	2000/2200 (79/87)

Chilled Water In-Row Air Conditioner

Features

- ◆ Centralized cooling source with high efficiency.
- ◆ Half/Full-Rack in width, fitting for Modular Data Center.
- ◆ Non-power-consuming wet membrane humidification components.
- ◆ Dynamically adjust Fan speed and valve based on cooling capacity needs.
- ◆ Well-known brands key components.
- ◆ High return air temperature design enhances energy efficiency.
- ◆ Supports Modbus RTU, with optional TCP/IP.

Scenarios

- ◆ medium to large-sized DC / high-density DC.
- ◆ DC with limited installation conditions.



Specification

Model		MWA-350L	MWA-700L	
Cooling Capacity	kW	35	70	
Inlet/Outlet Liquid Temp	°C	7/12		
Inlet Air Temp	°C	38		
Airflow	m³/h	6400	12000	
Rated Power	kW	1.8	3.3	
Pipe Diameter	DN	32	40	
Power Supply	/	AC 1/PE 208~240V 50/60Hz	AC 3/N/PE 380~480V 50/60HZ	
Fan Hot Swapping	/	Support		
Dimensions	Width	mm	300	600
	Depth	mm	1200	
	Height	mm	2000/2200	

Direct eXpansion Precision Air Cooling Solution

External Cabinet Backpack Aircon

Features

- ◆ This product series is designed for outdoor container data centers, communication rooms, outdoor battery cabinets, and similar applications, providing a suitable temperature for the working environment.
- ◆ The integrated design is easy to install, seamlessly integrates with the cabinet, and can operate automatically once powered.
- ◆ The product features multiple modes and intelligently determines the optimal temperature control solution.
- ◆ Customized products can be ordered individually (anti-corrosion, dust-proof, special power supply configurations, etc.).
- ◆ It provides passive alarm signals and digital communication interfaces.
- ◆ The product uses environmentally friendly refrigerants and complies with the RoHS standard.



Specification

Model		MCA-100HR	MCA-125HR	MCA-150HR	MCA-200HR	MCA-250HR	MCA-300HR	MCA-400HR
Cooling Capacity	kW	10	12.5	15	20	25	30	40
Power Supply System	/	380~415V, 3Ph,50/60HZ						
Rated Current	A	8.9	11.1	12.6	15.8	18.6	24.7	27.7
Airflow	m ³ /h	3000	5300	6500	8200	11000		
Input Power	kW	5	6.3	6.8	9.1	11.4	13.6	18.2
Ambient Temperature	°C	-40~50						
Dimensions	Width	mm	850	890	995			
	Depth	mm	460	705	1297			
	Height	mm	1930	2145	2100	2400		

Notes:

- 1.Nominal condition: Indoor 27.0°C/50%RH, outdoor 35.0°C.
- 2.Nominal condition: Indoor 24.0°C/50%RH, outdoor 35.0°C.

Built-in Integrated Precision Aircon

Features

- ◆ Provides a suitable working environment for outdoor container data centers, communication equipment rooms, outdoor battery cabinets, and other similar scenarios.
- ◆ Integrated design, with easy installation within the container for easy transportation. It is simple to operate and can run automatically upon power supply.
- ◆ Multiple modes, including cooling mode, heating mode, and dehumidification mode (optional).
- ◆ Provides passive alarm signals and digital communication interfaces.
- ◆ Adopting a high static pressure design with front air return and up air supply, which is more suitable for the containers air supply.
- ◆ Uses environmentally friendly refrigerant, compliant with RoHS standards.



Specification

Model			MCA-100NR	MCA-125NR	MCA-150NR	MCA-200NR	MCA-250NR	MCA-300NR	MCA-350NR
Cooling Capacity	kW		10	12.5	15	20	25	30	35
Power Supply System	/	380~415V, 3Ph,50/60HZ							
Rated Current	A		9.2	11.4	13.5	14.4	21.6	25.2	28.1
Internal Circulation Airflow	m³/h		3900		5300	6000	8200		11000
Input Power	kW		5	6.3	7.5	9.1	11.4	13.6	15.9
Ambient Temperature	℃	-40~50							
Dimensions	Width	mm	800	850	800		900		
	Depth	mm	650				700	870	
	Height	mm	1975			2100			

Notes :

1.Nominal condition: Indoor 27.0°C/50%RH, outdoor 35.0°C.

2.Nominal condition: Indoor 24.0°C/50%RH, outdoor 35.0°C.

DX Rack Aircon

Features

- ◆ Full variable capacity design, with an energy efficiency ratio up to 3.5.
- ◆ Compact design, providing more U-space for users.
- ◆ Equipped with a powerful drainage pump component to eliminate the risk of "water hazards" inside the cabinet.
- ◆ Microcomputer intelligent control system for real-time monitoring.
- ◆ In-Rack Aircon suitable for cabinets with depths ranging from 1000mm to 1400mm.
- ◆ Both indoor and outdoor units come with quick connectors pre-installed, pre-charged with refrigerant, and no welding during on-site installation.



Specification

Model			MCAI-40I	MCAI-50I	MCAI-80I	MCAI-130I
Cooling Performance	Total Capacity*	kW	3.5	5	7.5	12.5
	Sensible Capacity*	kW	3.5	5	7.5	12.5
	EER	W/W	3.20	3.20	3.20	3.20
Refrigerant		-	R410A			
Fan	Type	-	EC			
	Quantity	n	2	2	1	2
	Air flow	m ³ /h	800	1100	1650	2200
Air Filter		-	g2			
Electric Heater Power		kW	1.0			2.0
Humidifier	Type	-	Wet-film			
	Capacity	kg/h	1.0	1.0	1.5	3.0
Dimensions	Width	mm	443			
	Depth	mm	715			
	Height	mm	218		351	440
Net Weight		kg	27	28	36	42
Power Supply		-	208-240V ,1Ph,50/60Hz			
Max Current		A	11.5	16.5	20	35
Outdoor Unit Model		Unit	DHA-40L	DHA-50L	DHA-80L	DHA-130L
Required Quantity		-	1			
Net Weight		kg	30	34	60	85
Compressor	Type	-	Inverter			
	Quantity	n	1			
Fan	Type	-	AC			
	Quantity	n	1			2
Dimensions	Width	mm	794		1045	
	Depth	mm	310		431	
	Height	mm	537		760	1375

Note:

1.*Nominal condition: Indoor 35.0°C/24%RH, outdoor 35.0°C.

2.The parameters will refer the latest updated product spec.

DX Small Precision Aircon

Features

- ◆ High airflow and low enthalpy difference design meets the needs of various computer room environments.
- ◆ Full inverter high-efficiency compressor with low starting current and stable operation.
- ◆ Equipped with EC fans for optimal system performance and high energy efficiency.
- ◆ RS485 interface with multi-level password protection.
- ◆ 7-inch true color touchscreen with a user-friendly interface.
- ◆ Optional low-temperature components for reliable operation in outdoor ambient temperatures ranging from -35 to 45°C.



Specification

Model			MCAI-80F	MCAI-130F	MCAI-200F	MCAI-300F
Refrigeration Method		/	Air-Cooled			
Refrigerant		/	R410a			
Air Delivery Method		/	Top Front Air Supply			
Rated Voltage/Frequency		/	380~415V, 3Ph,50/60Hz			
Cooling Capacity		kW	7.5	12.5	20	30
Sensible Cooling Capacity		kW	6.8	11.3	18	27
Annual Energy Efficiency Ratio (AEER)		/	4			
FLA		A	13.0	16.5	26.3	39.0
Standard Airflow Rate		m ³ /h	2200	3600	5500	7500
Fan	Type	/	EC Fan			
	Quantity	unit	1			
Compressor Quantity		unit	1			
Heating Power		kW	3			6
Humidification Rate		kg/h	1.5		3	
Indoor Unit Size	Width	mm	550	650	800	900
	Depth	mm	450		650	750
	Height	mm	1800			1975
Weight		kg	118	138	174	220
Outdoor Unit Model		/	DHA-80L	DHA-130L	DHA-200L	DHA-300L
Outdoor Unit Size	Width	mm	728		1020	1300
	Depth	mm	405			740
	Height	mm	762	1370		1216

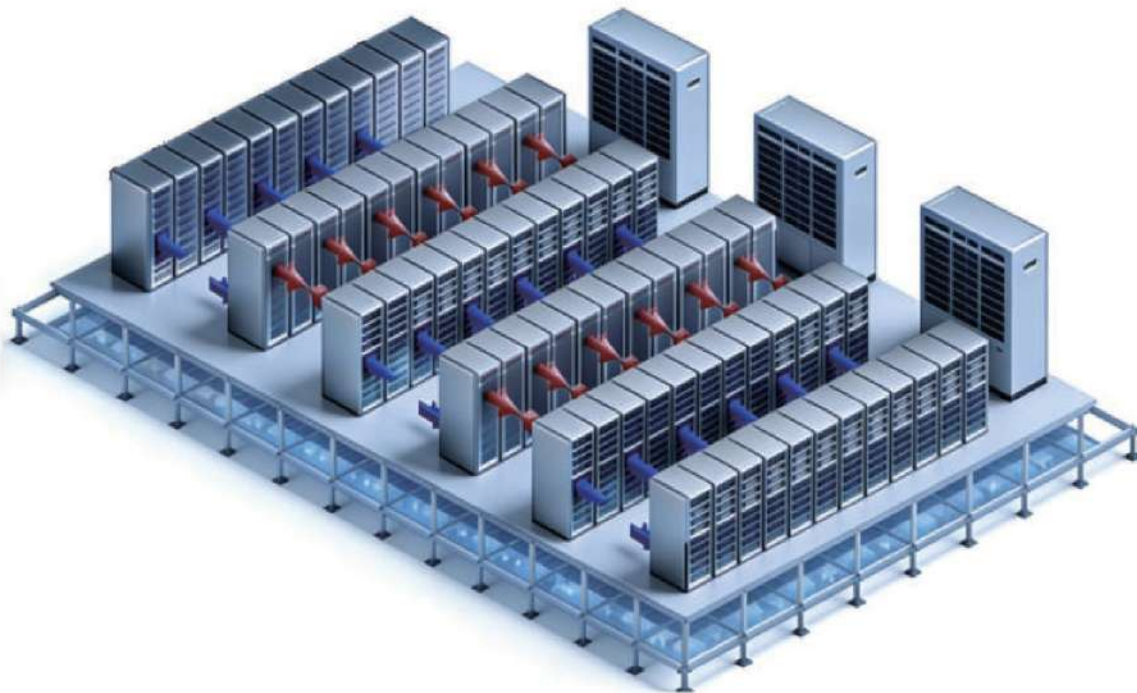
Notes :

1. Standard operating conditions: Indoor ambient temperature 24°C, wet-bulb temperature 17°C, outdoor ambient temperature 35°C.
2. The unit is available with single cooling/constant temperature and humidity, and the maximum working current and recommended circuit breaker are configured according to the constant temperature and humidity unit.
3. The connection pipe size in the table is based on the equivalent distance of 30m between the indoor unit and the condenser with a height difference *ΔH: -5m ≤ ΔH ≤ 10m.
4. If the required data is not listed in the table, please contact TONFY.

✦ DX Computer Room Precision Aircon

Features

- ◆ Medium to large-scale IDC data centers/telecommunication rooms/archives/electrical distribution rooms/laboratories/electronic instrument factories and other scenarios.



Product Introduction

Energy-efficient

- Equipped with high-efficiency variable frequency compressors;
- Variable air volume EC fans with infinite variable frequency adjustment;
- High-efficiency and environmentally friendly refrigerant R410a.

Flexible Configuration

- Multiple air delivery options available, including up air supply and down air supply;
- Can meet various power supply specifications: 380-415V, 3-phase, 50/60Hz power supply.

Intelligent Control

- Standard with a 7-inch LCD touch screen for an attractive interface;
- Equipped with an RS485 interface and multi-level password protection;
- Supports group control, allowing for networking and coordination of up to 32 units.

Quick Installation

- Designed with a modular concept for quick installation;
- Full front maintenance access.



Specification

Model		MCAI-250F	MCAI-300F	MCAI-400F	MCAI-500F	MCAI-600F	MCAI-800F	MCAI-1000F	MCAI-1200F
Refrigeration Method	/	Air-Cooled							
Air Delivery Mode	/	Up/down							
Power Supply	/	380~415V, 3Ph, 50/60HZ							
Cooling Performance	kW	23.5	27.5	36.5	46.5	56.5	74.5	92.5	110.5
Air Flow	m³/h	8000	9000	11000	13500	16000	21500	27500	32000
Fan Type	/	EC Fan							
Fan Quantity	set	1				2			
Number Of Compressors	set	1				2			
Heating Power	kW	6		9					
Humidification Capacity	kg/h	10					15		
Refrigerant	/	R410A							
Pipe Size	Liquid pipe	mm	16		19		16	19	
	Gas pipe	mm	19		22		19	22	
Dimension	Width	mm	700	800	1000	1100	1550	1950	
	Depth	mm	1000						
	Height	mm	2000						
Net Weight Of Indoor Unit	kg	260	305	350	380	600	640	680	720
Max Current	A	40	50	63	63	80	100	125	125
Outdoor Unit-Flat Model	/	DHA-550P	DHA-550P	DHA-660P	DHA-880P	DHA-550P*2	DHA-660P*2	DHA-880P*2	DHA-990P*2
Outdoor Unit-V Model	/	DHA-550V	DHA-550V	DHA-660V	DHA-880V	DHA-550V*2	DHA-660V*2	DHA-880V*2	DHA-990V*2

Notes :

1. Standard operating conditions: Indoor return air temperature 24°C, relative humidity 50%, air-cooled outdoor ambient temperature 35°C, ESP=100Pa.
2. The unit is available with single cooling/constant temperature and humidity, and the maximum working current and recommended circuit breaker are configured according to the constant temperature and humidity unit.
3. Please consult with TONFY before installing the connection pipe to confirm whether the pipe diameter and length require additional measures such as pipe extension components.
4. If the required data is not listed in the table, please contact TONFY.

DX In-Row Precision Aircon

Features

DX In-Row Aircon is a temperature control product developed for modular data centers and high heat density computer rooms. This product uses near-end cooling, high return air temperature design, and the fan is designed with redundancy, making it high energy-efficiency, safety, and reliability.



Specification

Model			MCAI-250L	MCAI-400L	MCAI-500L	MCAI-600L
Refrigeration Method		/	Air-Cooled			
Air Delivery Mode		/	Front Air Supply			
Rated Voltage/Frequency		/	380~415V ,3Ph,50/60Hz			
Cooling Capacity		kW	25	40	50	60
Maximum Operating Current Of the Unit FLA		A	37	50.2	54	57.2
Standard Airflow		m³/h	5000	8000	10800	12000
Fan	Type	/	EC Fan			
	Quantity	unit	6	2	3	
Number of Compressors		unit	1			
Heating Power		kW	3	6	9	
Humidification Capacity		kg/h	1.5	3	4.5	
Connection Pipe	Liquid pipe	mm	15.88		19.05	
	Gas pipe	mm	19.05		22	
Dimensions	Width	mm	300	600		
	Depth	mm	1100/1200			
	Height	mm	2000/2200			
Weight		kg	210	250	310	
FLA		A	40	63		
Outdoor Temperature (45°C)(113°F)	Flat Panel Outdoor Unit	mm	DHA-440P	DHA-660P	DHA-880P	DHA-990P
	Centralized Outdoor Unit	mm	DHA-440V	DHA-660V	DHA-880V	DHA-990V

Notes :

1. Standard operating conditions: Indoor return air temperature 37°C, relative humidity 24%, air-cooled outdoor ambient temperature 35°C, ESP=10Pa.
2. The unit is available with single cooling/constant temperature and humidity, and the maximum working current and recommended circuit breaker are configured according to the constant temperature and humidity unit.
3. Please consult with Tongfei before installing the connection pipe to confirm whether the pipe diameter and length require additional measures such as pipe extension components.
4. If the required data is not listed in the table, please contact TONFY.

DX Precision Aircon (Refrigerant Pump)

Fluorine Pump Air Cooling Precision Aircon for computer rooms integrates components such as axial flow fans and full DC inverter fluorine pumps. It is designed to maximize the use of free cooling, effectively reducing the operational energy consumption and temperature control costs of data centers. It is suitable for small, medium, and large IDC data centers, communication rooms, and other similar scenarios in most regions all around the world.

Climate data for free cooling available in selected cities

Project	Hamburg	London	Moscow	Tapera	Madrid	Istanbul	New York	Beijing	Johannesburg
Annual hours with temperature not exceeding 18°C ¹	8247	8014	7805	7786	6338	6224	5997	5563	4833
Annual Percentage ²	95%	91%	89%	89%	72%	71%	68%	63%	55%

1. Annual hours with temperature below or equal to 18°C.

2. Percentage of annual hours with temperature below or equal to 18°C.

Features

Energy-efficient

- Equipped with high-efficiency variable frequency compressors;
- Variable air volume EC fans with infinite variable frequency adjustment;
- High-efficiency and environmentally friendly refrigerant R410a.

Flexible Configuration

- Multiple air delivery methods available, including top air supply and bottom air supply;
- Wide power supply range: Can accommodate 380V-415V±15% 3N~50Hz±2Hz power supply.

Intelligent Control

- Standard with a 7-inch LCD touch screen for an attractive interface;
- Equipped with an RS485 interface and multi-level password protection;
- Supports group control, enabling networking and coordination of up to 32 units.

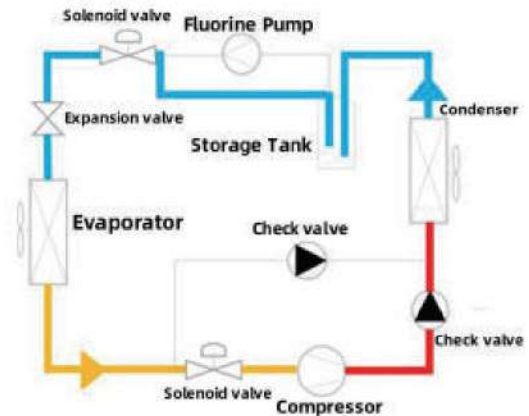
Rapid Installation

- Designed with a modular concept for quick installation;
- Full front maintenance access.

DX Precision Aircon (Refrigerant Pump)

- **Outdoor environment > 15°C**

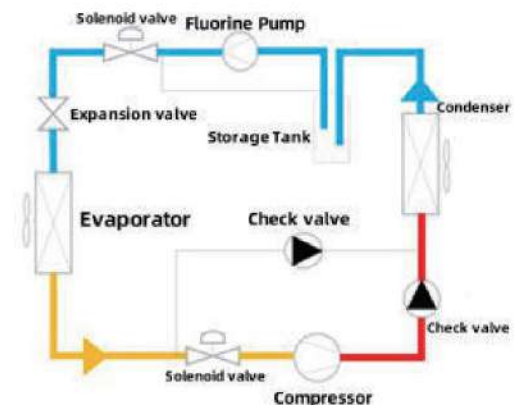
When the outdoor ambient temperature is high, the compressor is activated for conventional compressor cooling.



Compressor Mode

- **5°C < Outdoor environment ≤ 15°C**

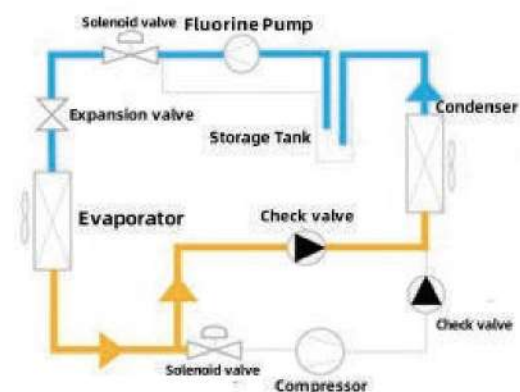
The refrigerant pump unit and the compressor operate together, enhancing the overall efficiency of the unit.



Hybrid Mode

- **5°C ≥ Outdoor environment**

When the outdoor ambient temperature is low, the compressor cooling is turned off to fully utilize natural cold sources and reduce system energy consumption.



Natural Cooling Mode

DX Small Precision Aircon(Refrigerant Pump)



Specification

Model			MCAI-130FP	MCAI-200FP
Cooling Performance	Total Capacity*	kW	12.5	20
	Sensible Capacity*	kW	11.25	18.00
Refrigerant		-	R410A	
Fan	Type	-	EC	
	Quantity	n	1	
	Air flow	m ³ /h	3600	5500
	ESP	Pa	20	
	Air supply	-	Forward air supply	
Compressor	Type	-	Inverter	
	Quantity	n	1	
Air Filter		-	G2	
Electric Heater Power		kW	3.0	
Humidifier	Type	-	Wet-film	
	Capacity	kg/h	1.5	3.0
Dimensions	Width	mm	650	800
	Depth	mm	450	650
	Height	mm	1800	1800
Net Weight		kg	138	174
Power Supply		-	380-415V,3Ph,50/60HZ	
Max Current		A	16.5	26.3
Pipe Size	Liquid pipe	mm	9.52	12.7
	Gas pipe	mm	19.05	19.05
Outdoor Unit Model		-	DHA-130LP	DHA-200LP
Net Weight		kg	53	74
Fan	Type	-	AC	
	Quantity	n	2	2
Dimensions	Width	mm	728	1020
	Depth	mm	405	
	Height	mm	1370	1370

Note:

- 1.*Nominal condition: Indoor 35.0°C/24%RH, outdoor 35.0°C.
- 2.The parameters will refer the latest updated product spec.

DX Computer Room Precision Aircon(Refrigerant Pump)



Specification

Model		MCAI-250FP	MCAI-300FP	MCAI-400FP	MCAI-500FP	MCAI-600FP	MCAI-800FP	MCAI-1000FP	MCAI-1200FP
Refrigeration Method	/	Air-Cooled							
Air Delivery Mode	/	Up/down							
Power Supply	/	380~415V, 3Ph, 50/60HZ							
Cooling Performance	kW	23.5	27.5	36.5	46.5	56.5	74.5	92.5	110.5
Air Flow	m³/h	8000	9000	11000	13500	16000	21500	27500	32000
Fan Type	/	EC Fan							
Fan Quantity	set	1				2			
Number Of Compressors	set	1				2			
Heating Power	kW	6		9					
Humidification Capacity	kg/h	10					15		
Refrigerant	/	R410A							
Pipe Size	Liquid pipe	mm	16		19		16	19	
	Gas pipe	mm	19		22		19	22	
Dimension	Width	mm	700	800	1000	1100	1550	1950	
	Depth	mm	1000						
	Height	mm	2000						
Net Weight Of Indoor Unit	kg	260	305	350	380	600	640	680	720
Max Current	A	40	50	63	63	80	100	125	125
Outdoor Unit-Flat Model	/	DHA-550PP	DHA-550PP	DHA-660PP	DHA-880PP	DHA-550PP*2	DHA-660PP*2	DHA-880PP*2	DHA-990PP*2
Outdoor Unit-V Model	/	DHA-550VP	DHA-550VP	DHA-660VP	DHA-880VP	DHA-550VP*2	DHA-660VP*2	DHA-880VP*2	DHA-990VP*2

Notes :

- Standard operating conditions: Indoor return air temperature 24°C, relative humidity 50%, air-cooled outdoor ambient temperature 35°C, ESP=100Pa.
- The unit is available with single cooling/constant temperature and humidity, and the maximum working current and recommended circuit breaker are configured according to the constant temperature and humidity unit.
- Please consult with Tongfei before installing the connection pipe to confirm whether the pipe diameter and length require additional measures such as pipe extension components.
- If the required data is not listed in the table, please contact TONFY.

DX Precision Fan Wall Air Con(Refrigerant Pump)

Features

- ◆ Horizontal air supply ensures uniform temperature gradient and minimizes air turbulence.
- ◆ The cold aisle maintains stable cold storage and consistent supply air temperature with hot aisle containment.
- ◆ Fast and flexible deployment without raised floor.



Specification

Model			MCAI-1300WP	MCAI-2000WP
Refrigeration Method	/		Air-Cooled	
Air Delivery Mode	/		Front air supply	
Power Supply	/		380~415V, 3Ph, 50/60HZ	
Cooling Capacity	kW		155	208
Sensible Capacity	kW		150	200
Standard Airflow	m ³ /h		37500	50000
Supply And Return Air Temperature	°C		25/38	
Fan	Type	/	EC Centrifugal Fan	
	Quantity	Set	4	
Compressor Quantity	Set		2	
Heating Power	kW		12	18
humidification Capacity	kg/h		9	15
Indoor Unit Dimensions	Width	mm	2200	2600
	Depth	mm	1300	1300
	Height	mm	2500	2600
Weight	Net Weight	kg	980	1100
Max Current	A		100A	125A
Outdoor Unit Model	/		DHA-990VP*2	DHA-1320VP *2
Outdoor Unit Dimensions	Width	mm	2300	
	Depth	mm	1150	
	Height	mm	2200	

Notes:

- 1.Air-cooled outdoor ambient temperature 35°C, external static pressure adjustable from 50 to 150P.
- 2.For selection under different working conditions, please contact TONFY.

DX In-Row Precision Aircon(Refrigerant Pump)



Specification

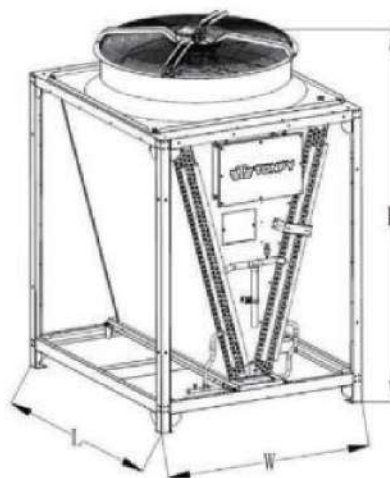
Model			MCAI-250LP	MCAI-400LP	MCAI-600LP
Cooling Performance	Total Capacity*	kW	25.0	40.0	60.0
	Sensible Capacity*	kW	25.0	40.0	60.0
Refrigerant		-	R410A		
Fan	Type	-	EC	-	-
	Quantity	n	6	2	3
	Air flow	m³/h	5000	8000	12000
	ESP	Pa	10		
	Air supply	-	Front air supply		
Compressor	Type	-	INV Rotary	INV Rotary	INV Scroll
	Quantity	n	1		
Air Filter		-	G4		
Electric Heater	Type	-	PTC		
	Power	kW	3.0	6.0	9.0
Humidifier	Type	-	Wet-film		
	Capacity	kg/h	1.5	3.0	4.5
Dimensions	Width	mm	300	600	
	Depth	mm	1200		
	Height	mm	2000		
Net Weight		kg	210	250	310
Power Supply		-	380-415V,3Ph,50/60Hz		
Max Current		A	37.0	50.2	57.2
Pipe Size	Liquid pipe	mm	16		
	Gas pipe	mm	22		
	Humidifier inlet pipe	-	G3/4"		
Outdoor Unit - Flat Type(45°C)		Unit	DHA-440PP	DHA-660PP	DHA-990PP
Outdoor Unit - V Type(45°C)		Unit	DHA-440VP	DHA-660VP	DHA-990VP

Note:

1.* Nominal condition: Indoor 35.0°C/24%RH, outdoor 35.0°C.

2.The parameters will refer the latest updated product spec.

V-Type Centralized Outdoor Unit



DX-Plus Room /DX InRow AirconOutdoor Unit - V Type

Outdoor Unit Type	Fan Quantity	Weight (kg)	Dimensions (mm)		
	Set		L	W	H
MHA-550V	1	150	880	980	1440
MHA-660V	1	225	1160	1225	1700
MHA-880V	1	225	1160	1225	2020
MHA-990V	1	240	1160	1225	2020

DX-Plus Room /DX InRow AirconOutdoor Unit - V Type

Outdoor Unit Type	Fan Quantity	Weight (kg)	Dimensions (mm)		
	Set		L	W	H
MHA-550VP	1	180	880	980	1440
MHA-660VP	1	255	1160	1225	1700
MHA-880VP	1	275	1160	1225	2020
MHA-990VP	1	300	1160	1225	2020
MHA-1320VP	2	320	2300	1150	2200
MHA-1760VP	2	380	2300	1150	2200

Notes:

- 1.If you need to select a non-def1. The variation in height dimensions is due to differences in fan heights among different brands. For details, please consult TONFY.
- 2.If you wish to select a non-default outdoor unit, please contact TONFY.



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