



Technical Data

Applications	In-row Air Conditioner Application Column-type Air Conditioner is intended to cool the equipment in medium and large modular data centers, container data centers, and large data rooms with high thermal density.
Refrigeration Capacity	25 to 40kW
Product Features	<div>High Efficiency and Energy Reduction</div> <div>High-efficiency frequency conversion compressor, smart adjustment of cooling capacity;</div> <div><ul style="list-style-type: none">As a revolutionary new air treatment device, the EC fan introduces aviation-grade DC motor-driven non-polar speed control. The fan has precise electronic control and rapidly responds to output demand. Its load mode is more economical and energy-saving. And its nearly 92% working efficiency, 30% higher than the normal</div>

	<p>ones, brings a notable reduction in operation cost. The fan enjoys a longer lifespan, small vibration, low noise, maintenance-free, continuous and stable operation, for operation stability of all units;</p> <ul style="list-style-type: none">• Optimal control strategy to ensure maximum energy saving;• Heat exchangers and ducts in CFD optimization for high efficiency and low resistance of heat and mass transfer;• Ultra-high thermal ratio to avoid repeated loss in humidification and dehumidification;• Efficient environmental refrigerant.
High Reliability	<ul style="list-style-type: none">• Modular design to enhance space utilization and reduce maintenance space;• Close to heat source to reduce energy consumption;• Unique airflow organization for cold and hot aisle containment;• 24 hours, 365 days of continuous operation;• All accessories are subject to rigorous inspection and testing, all in stable performance;• PTC electric heater, safe and reliable;• Condensate pump with high and low water level control, double protection;• Complete alarm protection and expert self-diagnosis function, in the high-strength framework for land, sea, and air transportation.
Smart Management	<ul style="list-style-type: none">• 7-inch huge color LCD touchscreen;• Human-centered design, one-click operation;• Optional interface in Both English and Chinese;• Unit operating mode display function (cooling, heating, dehumidification, humidification);• Dynamic display of color images;• Expert self-diagnosis;• Call self-start function;• Standard RS485 communication interface and mod-bus communication protocol;• Up to 32 units of networked group control;• Backup, round-tour, and cascade, to avoid competitive operation;• Operating temperature at 40 to 45°C.

Technical Specifications

Model	MC25	MC40	MCE25	MCE40
Air Supply	Rear return air is supplied from the front, using an on-site guide plate to adjust the air direction, with air pushed horizontally from the front, left side, right side, and left-right side			
Circulation Air Volume m ³ /h	5000	8200	5000	8200
Overall Cooling Capacity (kW)	25	38.1	25	38.1
Sensible Capacity (kW)	25	38.1	25	38.1
Type of Refrigerant	R410A Eco-Refrigerant			
Type of Compressor	Full hermetic constant-speed scroll compressor		Full hermetic EC scroll compressor	
Type of Expansion Valve	Mechanical thermal expansion valve		Electronic expansion valve	
Quantity of Fan (pc)	6	2	6	2
Type of Fan	Direct connect EC fan			
Air Filter	G4 filter			
Power Supply	380V/3N~/50Hz			
Power Distribution Parameter FLA (A) (only for cold)	23.8	27.9	23.8	27.9
Power Distribution Parameter FLA (A) (constant temperature and humidity)	28.3	37	28.3	37
Optional Heating Capacity (kW)	3	6	3	6
Optional Humidity Capacity (kg/h)	2	2	2	2
Inlet Pipe for Humidifier (only for humidification)	G1/2	G1/2	G1/2	G1/2
Outlet Pipe for Condensate Water (mm)	20	20	20	20
Air Pipe for Refrigerant (mm)	19	22	19	22
Liquid Pipe for Refrigerant (mm)	16	19	16	19
Unit Weight (kg)	310	400	290	380
Cabinet Size W*D*H (mm)	300*1200*2000	600*1200*2000	300*1200*2000	600*1200*2000

Model for Corresponding Outdoor Units	ACS42	ACS72	ACS42	ACS72
Power Supply for Outdoor Units	380V/3N~/50Hz			
Fan Quantity of Outdoor Units (pc)	1	2	1	2
Refrigerant Pipe Port Size	φ22/φ16	φ28/φ22	φ22/φ16	φ28/φ22
Unit Size (L*W*H)	1360*968*661	1860*1273*655	1360*968*661	1860*1273*655