CANATEC

Fan Wall Array

High airflow precision cooling

Space-saving framework

High airflow performance
Our latest Fan Wall Array delivers high-capacity thermal management for high-density data centres, providing airflow rates of up to 72,000 CMH.

Designed for integration into equipment corridors, the Fan Wall Array establishes hot and cold airflow paths that help maintain consistent cooling performance across demanding IT environments while supporting efficient airflow management.

Cooling Capacity
65kW to 289kW

Best Fit Use Cases
Space-constrained high-density facilities

Vertical design to maximize density
Available in multiple configurations, the Fan Wall Array reaches five metres in height to maximize cooling capacity while minimizing floor space. The vertical architecture also simplifies containment strategies and white space planning while enabling operators to deploy high airflow volumes within a compact equipment footprint.

Key Components

- **EC Fan:** Modulates fan speed based on real-time demand and reduces energy consumption to as low as 0.16W/CMH through variable-speed operation.
- **Filter Panels:** Ensures reliable qir quality, improving performance and longevity of equipment.
- **Smart Controller:** Supports comprehensive monitoring function through intuitive controller operation and seamless BMS integration.
- **Optional Active Harmonic Filter:** Maintains THDi below 5% at full load, for improved electrical efficiency and infrastructure protection.

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Features & Functions

Reduced Footprint
Stackable and compact framework maximizes space and increases density.

Robust Build
Durable steel structure engineered for intensive data centre purposes.

Accessible Design
Rear access to hot swappable DC fans allow for easier maintenance.

Reduced Hotspots
Unique uniform horizontal airflow technology reduces hotspots.

Smart Controller
Multiple monitoring functions and BMS connection capabilties.

AC/DC Power Supply Options
Designed with flexible power architecture options to suit AC or DC applications.

Specifications

Model (FWA***)	070S	150S	230S	100D	230D	300D
Condition			RAT 36°C, SAT 24°C, CHW 18°C/26°C			
Total Cooling Capacity (kW)	65.0	145.0	220.0	92.0	214.0	289.0
Sensible Cooling Capacity (kW)	65.0	145.0	220.0	92.0	214.0	289.0
SHR	1.00	1.00	1.00	1.00	1.00	1.00
Air Volume (CMH)	16000	36000	55000	23400	54000	72000
CHW Flowrate (L/s)	2.01	4.52	6.83	2.91	6.71	8.94
Power Input (kW)	2.3	5.2	7.6	4.9	9.6	9.6
Water Pressure Drop (kPa)	<85	<85	<85	<85	<85	<85
Condition			RAT 40°C, SAT 28°C, CHW 20°C/30°C			
Total Cooling Capacity (kW)	68.0	145.0	225.0	100.0	224.0	325.0
Sensible Cooling Capacity (kW)	68.0	145.0	225.0	100.0	224.0	325.0
SHR	1.00	1.00	1.00	1.00	1.00	1.00
Air Volume (CMH)	17000	36000	55800	25200	56000	79200
CHW Flowrate (L/s)	1.71	3.61	5.6	2.46	5.62	8.15
Power Input (kW)	2.5	5.0	7.9	4.8	10.0	11.6
Water Pressure Drop (kPa)	<85	<85	<85	<85	<85	<85
External Static Pressure (Pa)	100	100	100	100	100	100
Fan Type			EC Plug Fan			
Fan Quantity	1	2	3	2	4	6
CHW Inlet/Outlet (mm)	DN50	DN65	DN80	DN65	DN80	DN80
Width (mm)	1000	2000	3000	1000	2000	3000
Depth (mm)	800	800	800	800	800	800
Height (mm)	5000	5000	5000	5600	5600	5600
Unit Weight (kg)	1500	2000	2500	1800	2600	3400
Power Supply			380~415V 3P+1N 50/60Hz			

Standard Accessories	G4 Filter, Pressure Switch (Filter Dirty), Water Leak Sensor
Optional Accessories	Active Harmonic Filter, ATS, Battery Backup, EPIV / Energy Valve, Power Meter, Smoke Detector, Remote Air Sensor, Air Damper

- Please contact our representatives for other requirements.
- The manufacturer reserves the rights to make changes to the product specifications. The data and renders shown above may vary.