

Fan Wall Unit Built for hyperscale

Efficiency at its peak

Proven in mission-critical environments

Introducing our latest cutting-edge Fan Wall solution architected with intensive data centre operations in mind. We designed a highly customizable and scalable modular system to meet diverse client requirements.

With almost two decades of precision cooling experience, we engineered the most important principles of into our solution: efficiency and accessibility.

Exceptional performance

Each Fan Wall unit delivers up to 800kW of cooling, providing unparalleled thermal management in high-density environments, while reducing overall energy consumption.



Engineered with intentionality

Our innovative Fan Wall solution also lowers total cost of ownership (TCO) through **1.** Reduced need for raised floor construction **2.** Decreased power consumption as a result of efficient horizontal airflow.

The compact design also makes excellent use of space, which is particularly beneficial in smaller data centres. Fan Wall units also have a more compact physical footprint compared to other solutions and can be arranged vertically without need for side clearance.

Breaking conventional norms, we placed the EC fans at the rear, allowing engineers to access and perform maintenance with ease.

Hyperscale & beyond

Perfect for high-density environments where scalability and redundancy are key requirements:

- Hyperscale Data Centres
- Colocation Facilities
- 5G and Telecommunications Edge

Features & Benefits



Customizable Capacity

Modular design can be adapted to specific spaces and requirements.



Robust Build

Durable steel structure engineered for intensive data centre purposes.



Accessible Design

Rear access to EC fans allow for ease of maintenance.



Reliable Air Quality

Filter panels ensure performance and longevity of equipment.



Lower PUE

Efficient system surpasses local standard PUE requirement.



Lower OPEX

Efficient operations leads to lower consumption and higher savings over time.



Smart Controller

Multiple monitoring functions and BMS connection capabilities.



Reduced Hotspots

Unique uniform horizontal airflow technology reduces hotspots.

Specifications

Model (FW***)	120	240	380	470
Condition	RAT 36°C, SAT 24°C, CHW 18°C/26°C			
Total Cooling Capacity (kW)	120.0	240.0	380.0	470.0
Sensible Cooling Capacity (kW)	120.0	240.0	380.0	470.0
SHR	1.00	1.00	1.00	1.00
Air Volume (CMH)	30000	60000	90000	116240
CHW Flowrate (L/s)	3.77	7.32	11.56	14.19
Power Input (kW)	6.6	11.3	20.0	23.4
Water Pressure Drop (kPa)	<85	<85	<85	<85
Condition	RAT 40°C, SAT 28°C, CHW 20°C/30°C			
Total Cooling Capacity (kW)	125.0	255.0	365.0	525.0
Sensible Cooling Capacity (kW)	125.0	255.0	365.0	525.0
SHR	1.00	1.00	1.00	1.00
Air Volume (CMH)	30000	60000	90000	124000
CHW Flowrate (L/s)	3.12	6.25	8.91	12.75
Power Input (kW)	6.6	11.3	19.2	26.4
Water Pressure Drop (kPa)	<85	<85	<85	<85
External Static Pressure (Pa)	75	75	75	75
Fan Type	EC Plug Fan			
Fan Quantity	2	4	6	8
CHW Inlet/Outlet (mm)	DN50	DN80	DN80	DN80×2
Unit Width (mm)	2500	2500	3100	4600
Unit Depth (mm)	1600	1600	1600	1600
Unit Height (mm)	1500	4000	4000	4000
Unit Weight (kg)	700	1700	2000	2500
Power Supply	380-415V 3PIN 50/60Hz			
Standard Accessories	G4 Filter, Pressure Switch (Filter Dirty), Water Leak Sensor, Internal Service Light, Air Damper			
Optional Accessories	Active Harmonic Filter, ATS, Battery Backup, EPV / Energy Valve, Power Meter, Smoke Detector, Remote Air Sensor			

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