

Fan Wall Unit Built for hyperscale

Exceptional performance

High-density environments, high efficiency solutions

Our Fan Wall Unit provides reliable and scalable cooling to support next-generation data centres. With almost two decades of precision cooling experience, we engineered the most important principles into our solution: efficiency and accessibility.



Achieves PUE of **1.25 - 1.28** through optimized design.



Delivers up to **800kW** of powerful cooling per unit.



Engineered with intentionality



Technology to maximize efficiency and minimize operating costs

- 1 EC Fans:** Reduces energy consumption to as low as 0.16W/CMH through variable-speed operation.
- 2 Smart Valves:** Responds swiftly to fluctuating heat loads in real time, optimizing cooling efficiency.
- 3 Active Harmonic Filter:** Maintains THDi below 5% at full load, for improved efficiency and infrastructure protection.



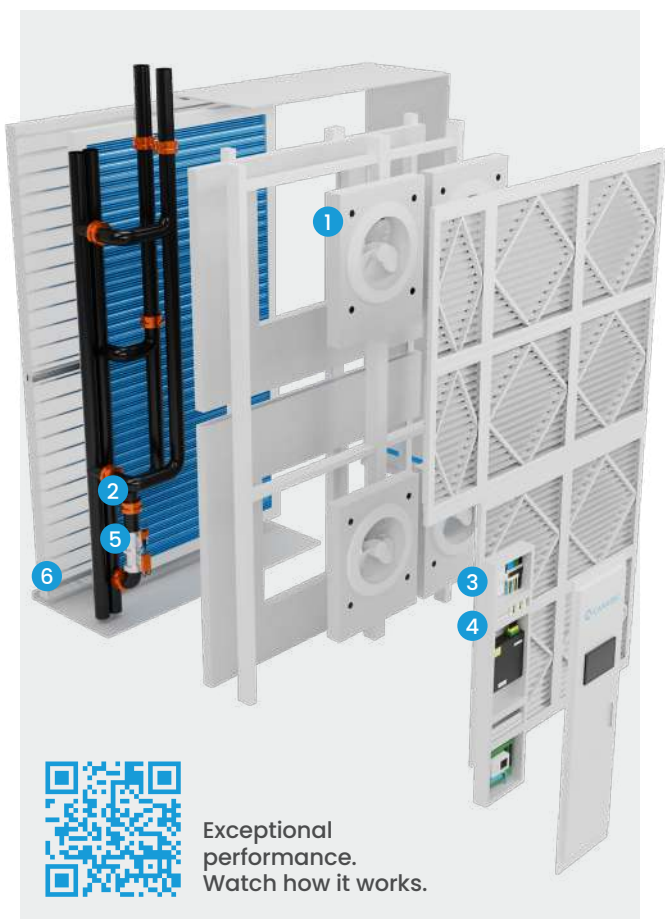
Protection for high value mission-critical infrastructure

- 4 Dual Power Source & UPS-Backed Controller:** Protects critical operations during potential power disturbances.
- 5 Integrated Water Leak Detection:** Monitors and minimizes operational risks related to precision cooling.
- 6 Fail-Safe Air Damper:** Prevents backwards airflow and cool air short-circuits from occurring.



Practical design considerations for present and future operations

- Compact & Modular Design:** Maximizes usable data hall space, reduces need for raised floor construction, and can be arranged vertically without side clearance.
- Simplified Maintenance:** Rear door access to EC fans allows for easier maintenance.



Exceptional performance.
Watch how it works.

High volume horizontal airflow

Uniform airflow keeps temperatures consistent

Through consistent high volume horizontal airflow, our Fan Wall Unit enables efficient heat dissipation and minimises hotspots throughout large data halls.

Our innovative Fan Wall Unit also lowers total cost of ownership (TCO) through **1.** Hot & cold aisle containment and **2.** Reduced need for raised floor construction, increasing efficiency in more ways than one.



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 3P+1N 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, EPIV / 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 and renders shown above may vary.