

FANWALL



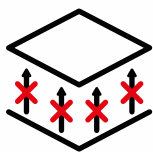
**FANWALL UNIT FOR
DATA CENTER COOLING
FROM 90 TO 420 kW**

FANWALL

Extremely versatile solution for high thermal loads in IT environments

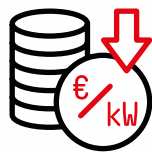
The fan wall unit is one universal solution for the cooling system of data center which with low initial investment, faster installation and space optimization performance.

Data centers generate a significant amount of heat due to the operation of servers and other hardware. Efficient cooling is crucial to maintain optimal operating conditions and prevent equipment overheating. A fan wall unit may offer a cost-effective alternative with lower upfront expenses.



No Raised Floor

There is no need for raised floors, which reduces maintenance costs and costs associated with repairs.



Lower First Investment

As a result of the design of the product, the initial cost per kW is lower than traditional solutions.



Modular Design

Equipment with stackable modules designed for modularity



Flexiable Connection

Providing both top and side hydraulic connection demonstrates a commitment to flexibility and adaptability.



Frontal Accessibility

Full frontal accessibility to the main components of a system from the suction side (blown coil) in a flexible setup.



Compact Foot Print

Positioning units in a technical corridor to create more usable space for server racks is a strategic approach that can optimize the utilization of available room.



TECHNOLOGICAL FEATURES

FAN WALL is one of the most universal solution. Since each unit is stackable in order to increase the kW per footprint.

TAILOR-MADE COIL

A "tailor-made coil" typically refers to a customized or specially designed coil that is created to meet specific requirements or specifications. The term "tailor-made" suggests that the coil is uniquely crafted to suit the exact needs of particular delivery air temperatures, specific delta T and volumetric air flow rates.

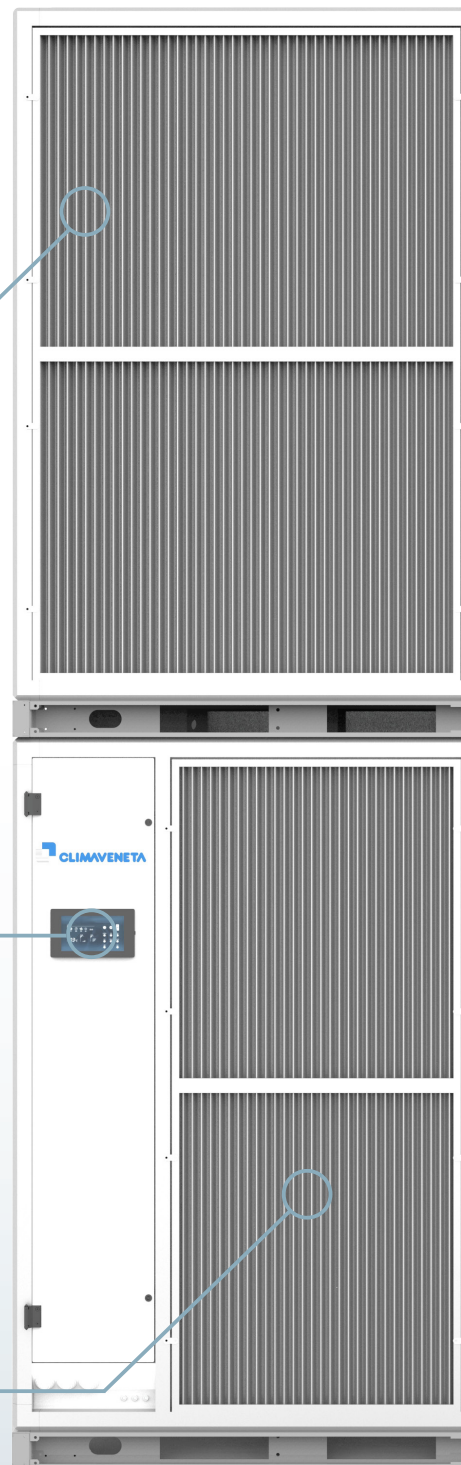
TOUCH DISPLAY (opt.)

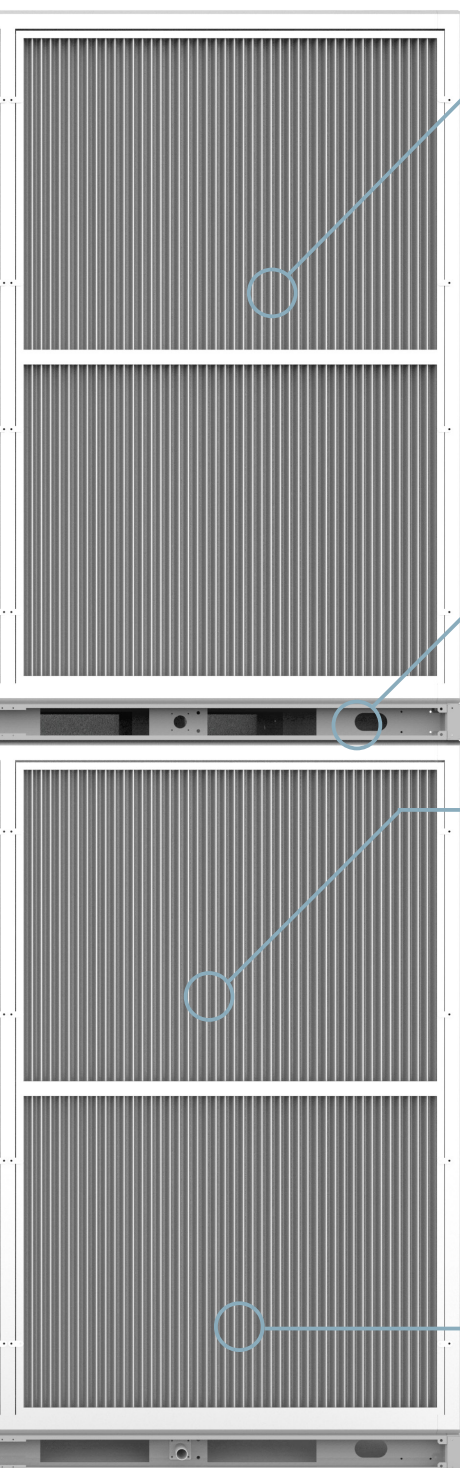
The touch display makes it easy to interact with the unit thanks to the latest generation human machine interface.



MAINTENANCE LAMP(opt.)

The purpose of a maintenance lamp is to ensure that the fan wall unit operates efficiently and reliably. By providing clear visual indications of maintenance needs or system status.





EC PLUG FANS

Permanent magnet motors in conjunction with plug fans to ensure high efficiency, scalability of volumetric air flow, and the flexibility to adjust the number of fans.

High Gauge Aluminum Alloy Frame

The framework consists of the internal frame, external frame and the PVC insulator. All frames are made of aluminum alloy with anodize treatment.

The PVC insulator is extruded to the internal and external frame avoiding thermal bridge.

PRESSURE INDEPENDENT CONTROL VALVE (opt.)

The PICV valve regulates the fluid flow accurately within the system.

By ensuring the correct amount of water with differential pressure changes and partial loads, it can contribute to the energy savings significantly.

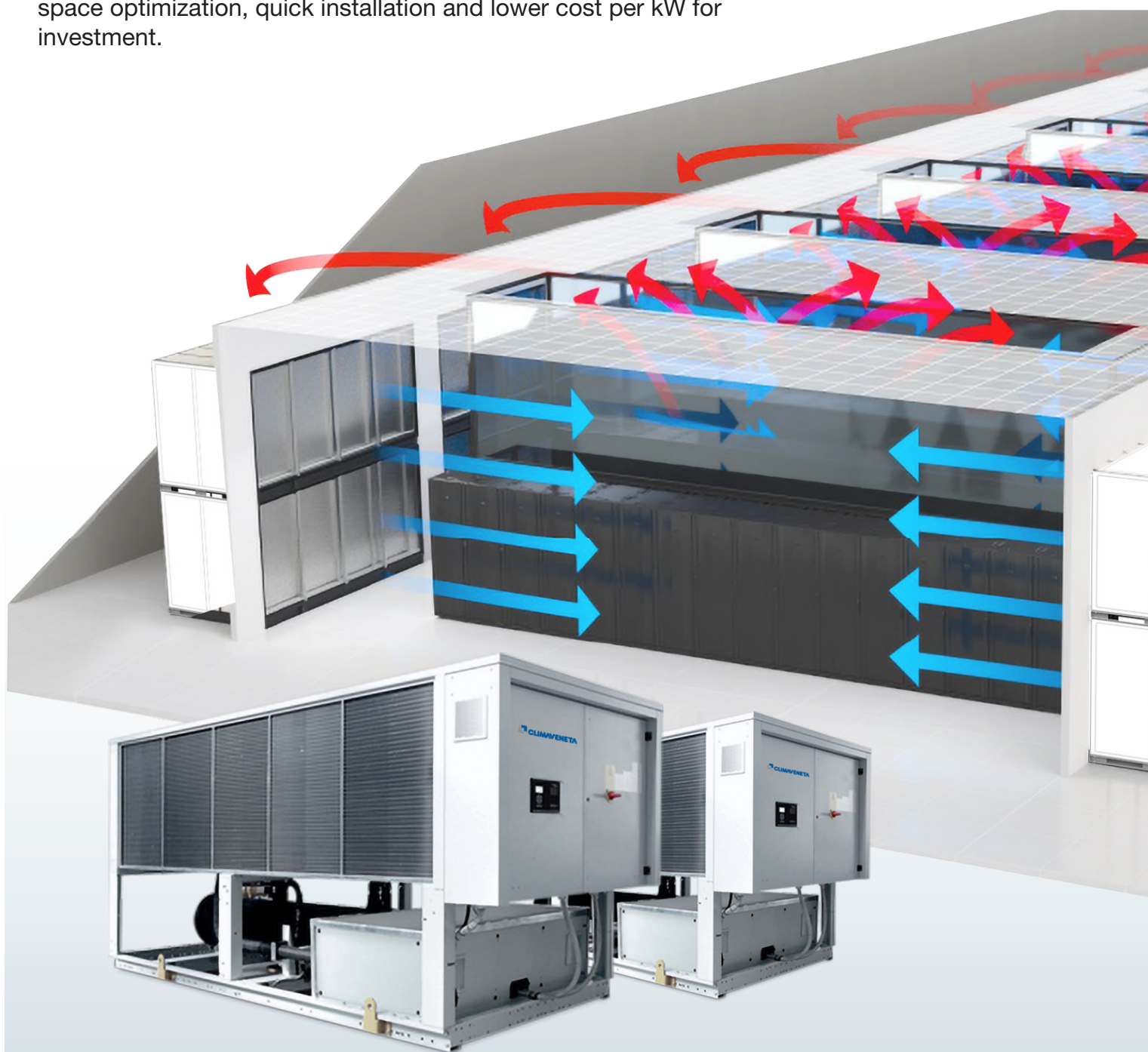


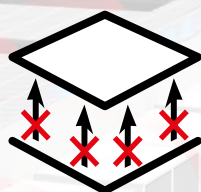
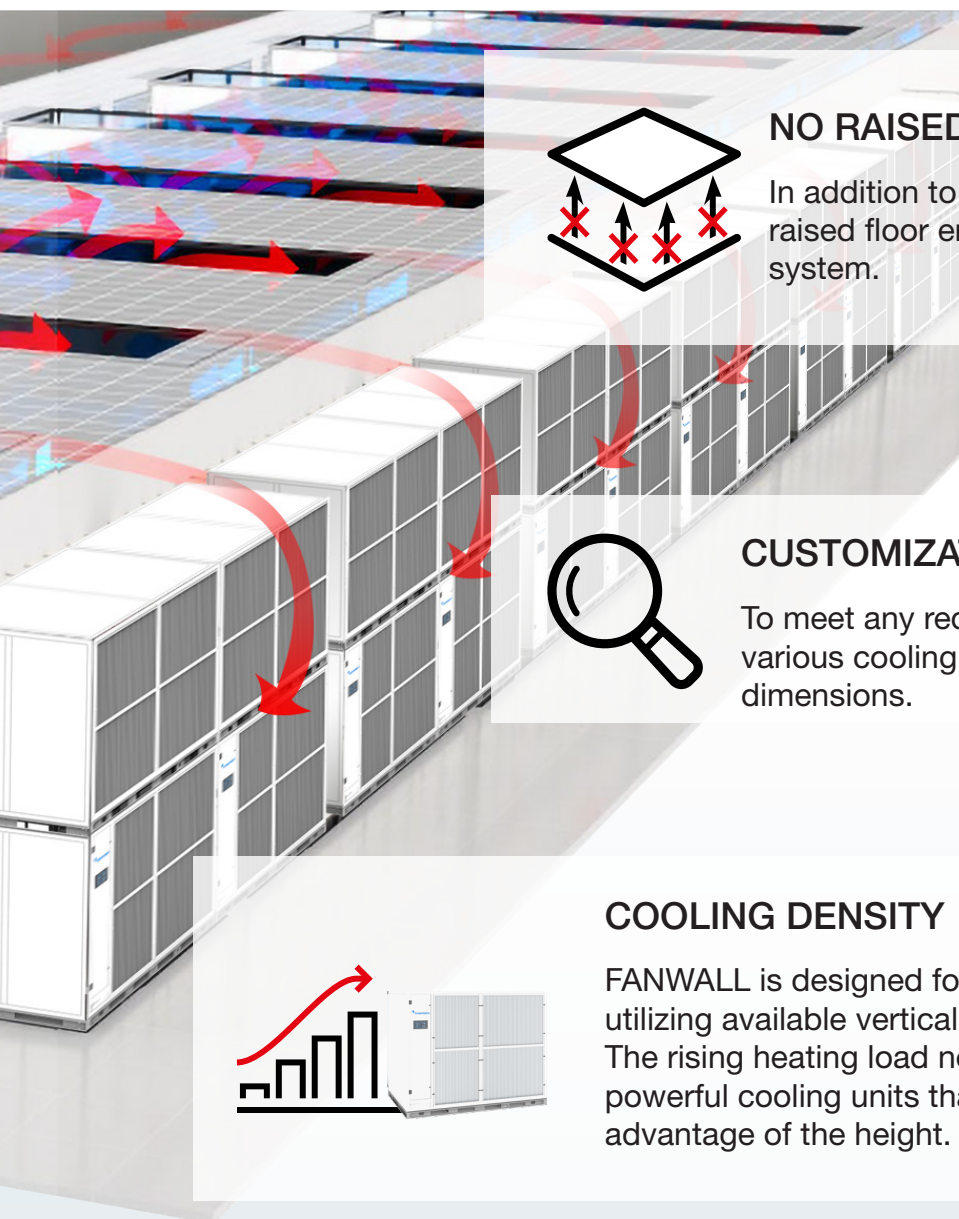
HIGH EFFICIENCY FILTERS

Thanks to the optimized structure of the fan wall unit, the filters can cover entire frontal surface of the air stream. That the pressure loss will be lower and filtration performance is better.

HYPERSCALE AND COLOCATION DATA CENTERS

Hyperscale and colocation data centers that offer in terms of space optimization, quick installation and lower cost per kW for investment.





NO RAISED FLOOR

In addition to reducing maintenance costs, the raised floor ensures lower initial costs for the system.



CUSTOMIZATION

To meet any requirement, this fan wall unit offers various cooling powers, air flow rates, and dimensions.



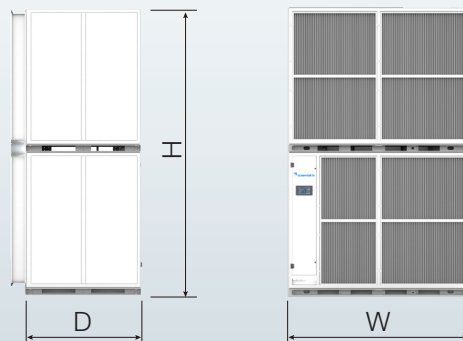
COOLING DENSITY

FANWALL is designed for maximizing power density and utilizing available vertical space. The rising heating load necessitates the use of more-powerful cooling units that fan wall unit can fulfill by taking advantage of the height.

Performance and Overall Dimension



FANWALL		FW081CW	FW101CW	FW171CW	FW201CW	FW172CW	FW202CW	FW342CW	FW402CW
Total cooling capacity	kW	84.8	100.0	169.5	200.0	169.6	201.0	340.0	401.0
Air flow	CMH	24250	28500	48500	57000	48500	57000	97000	114000
Width (W)	mm	2500	2500	3500	3500	2500	2500	3500	3500
Depth (D)	mm	1600	1600	1600	1600	1600	1600	1600	1600
Height (H)	mm	1750	2000	1750	2000	3500	4000	3500	4000



AVAILABLE EQUIPMENT

PRESSURE INDEPENDENT CONTROL VALVE (opt.)

The system provides real-time information on measured flow rates and cooling power.

This data is crucial for monitoring the system's performance and efficiency.

The system's Modbus function likely allows for easy integration with Building Management Systems (BMS) or other control systems, enabling remote monitoring and control of the hydronic balancing system.



LATERAL CONNECTION KIT

Fanwall provide efficient and customizable air movement. The focus is on the configuration of the hydronic connections for the water inlet and outlet from the unit.

The "top connections" refer to the default or standard configuration for the water inlet and outlet on the Fanwall unit. The side connections are optional.

DAMPERS AND PLENUM (opt.)

The product offers various options for connecting dampers (airflow control devices), enabling adaptable configurations to suit specific project needs.



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