

COOLING SYSTEM DATASHEET

SOETECK · FAN WALL COOLING

Soetek Fan Wall Chilled-Water Air Conditioning Units

Modular chilled-water fan wall cooling from 30 to 300 kW integrated into the data hall wall

SKU FO-WL

Soetek



COOLING CAPACITY

up to 300 kWTOTAL COOLING
CAPACITY**FO.WL-600: 60....**INLET / OUTLET WATER
TEMPERATURE**15 / 21 °C**

PRICE

On request**REQUEST A QUOTATION ONLINE**serverinvest.com/product/soetek-wall-mounted-wind-wall-high-energy-air-...

01 Product overview

The Soetec fan wall (wind wall) is a chilled-water precision cooling system installed within the isolation wall of a data hall rather than on the white-space floor. High-capacity cooling coils and fans are embedded in the wall, creating a sealed hot-air return channel and supplying cold air straight into the room, which pairs naturally with hot- and cold-aisle containment.

It is designed for medium and large data centres, including new builds where the cooling can be coordinated with the building structure, and halls where large volumes of air must be moved efficiently at low pressure.

How it works

Chilled water passes through I-shaped coils that offer a large heat-exchange area and even airflow, while high-efficiency EC fans provide continuously adjustable air volume with low noise. The control system varies both airflow and water flow and switches between operating modes according to indoor and outdoor conditions, helping lower the facility PUE. Coils and fans are separate modules, widening the choice of sizes, and fan redundancy simplifies installation and maintenance.

FO.GBE series: 150.1–300.1 kW per unit, 35,000–56,000 m³/h, 15/21 °C water

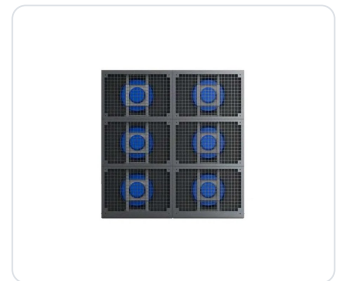
FO.WL series: 30.3 and 60.1 kW modules, 18/24 °C water

Modules can be added or removed as the room load changes

ServerInvest sizes, supplies and integrates fan wall cooling with chillers, containment, racks and Supermicro servers, and the hall layout can be designed in our 3D Room Builder.

HIGHLIGHTS

- Modules from 30.3 kW (FO.WL-300) to 300.1 kW (FO.GBE 3000)
- 100% sensible cooling with EC fans and I-shaped chilled-water coil
- Built into the isolation wall to form a sealed hot-air return path
- Variable airflow and water flow with automatic mode selection
- Redundant fans; modules run standalone or combined as load changes



02 Full specifications

FO.GBE SERIES

KEY SPECIFICATIONS

Inlet / outlet water temperature	15 / 21 °C
EC fan quantity	1500 R-H: 4 • 2000 R-H: 4 • 2500 R-H: 4 • 3000 R-H: 6
Residual pressure	200 Pa
Width × height	1100 × 2150 mm
Connections	DN65
Input power	380V ±10%, 50Hz ±3Hz
Cooling conditions	37 °C / 30% RH
Total cooling capacity	FO.WL-600: 60.1 kW • FO.WL-300: 30.3 kW
Sensible cooling capacity	FO.WL-600: 60.1 kW • FO.WL-300: 30.3 kW
Inlet / outlet water temperature	18 / 24 °C
Water flow rate	FO.WL-600: 8.61 m³/h • FO.WL-300: 4.32 m³/h
Water pressure drop	FO.WL-600: 61 kPa • FO.WL-300: 41 kPa

Cooling conditions	1500 R-H: 37 °C / 30% RH · 2000 R-H: 37 °C / 30% RH · 2500 R-H: 27 °C / 30% RH · 3000 R-H: 37 °C / 30% RH
Total cooling capacity	1500 R-H: 150.1 kW · 2000 R-H: 200.1 kW · 2500 R-H: 250.1 kW · 3000 R-H: 300.1 kW
Sensible cooling capacity	1500 R-H: 150.1 kW · 2000 R-H: 200.1 kW · 2500 R-H: 250.1 kW · 3000 R-H: 300.1 kW
Inlet / outlet water temperature	15 / 21 °C
Water flow rate	1500 R-H: 21.51 m³/h · 2000 R-H: 28.68 m³/h · 2500 R-H: 35.84 m³/h · 3000 R-H: 43.01 m³/h
Water pressure drop	1500 R-H: 115 kPa · 2000 R-H: 120 kPa · 2500 R-H: 125 kPa · 3000 R-H: 130 kPa
EC fan quantity	1500 R-H: 4 · 2000 R-H: 4 · 2500 R-H: 4 · 3000 R-H: 6
Air supply volume	1500 R-H: 35000 m³/h · 2000 R-H: 40000 m³/h · 2500 R-H: 49000 m³/h · 3000 R-H: 56000 m³/h
Residual pressure	200 Pa
Fan rated power	1500 R-H: 7 kW · 2000 R-H: 8 kW · 2500 R-H: 10.1 kW · 3000 R-H: 13.2 kW
Length	1500 R-H: 2400 mm · 2000 R-H: 2400 mm · 2500 R-H: 3000 mm · 3000 R-H: 3000 mm
Width × height	1100 × 2150 mm
Connections	DN65
Input power	380V ±10%, 50Hz ±3Hz

FO.WL SERIES

Cooling conditions	37 °C / 30% RH
Total cooling capacity	FO.WL-600: 60.1 kW · FO.WL-300: 30.3 kW
Sensible cooling capacity	FO.WL-600: 60.1 kW · FO.WL-300: 30.3 kW
Inlet / outlet water temperature	18 / 24 °C
Water flow rate	FO.WL-600: 8.61 m³/h · FO.WL-300: 4.32 m³/h
Water pressure drop	FO.WL-600: 61 kPa · FO.WL-300: 41 kPa
Fan rated power	FO.WL-600: 1.04 kW · FO.WL-300: 0.39 kW
Length	FO.WL-600: 1200 mm · FO.WL-300: 600 mm
Width × height	2000 × 2200 mm
Weight	FO.WL-600: 165 kg · FO.WL-300: 95 kg
Connections	DN32
Input power	220V ±10%, 50Hz ±3Hz

03 Engineered, delivered & supported by ServerInvest

Engineering & sizing

Selected and sized against your real IT load, room and redundancy targets.

Installation

Delivery, installation and commissioning by our engineers across Europe.

Certified processes

ISO 9001, ISO 14001 and ISO 27001 certified project delivery.

Service & support

Maintenance, spare parts and support from a single partner.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
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