

Datatech PFW

Computer Room Air Conditioners with single or dual extended chilled water coil and separated fan section

70 ÷ 260 kW



General

Datatech PFW represents the ultimate expression of power and efficiency reached in air conditioning units for large computer rooms. The maximization of the heat exchange surface, the separated fan section housed under the raised floor and the advanced control logic make Datatech PFW the ideal solution for various data center layouts.

Quick facts

- ▶ High sensible cooling per square meter of footprint
- ▶ Exceptionally high efficiency of EC motor driven plastic impeller radial fans
- ▶ Wide range of cooling capacities
- ▶ Configurable, Precise and Flexible control of fan speed and chilled water valve.
- ▶ Dual-Coil and Dual Power Supply options for redundancy applications
- ▶ Exhaustive list of options (electrical heaters, humidifier, condensate pump, BMS interface cards..)
- ▶ Easy installation of 2 prewired sections



The EC radial fans installed in a structure located under the raised floor allows to minimize the pressure losses, optimize the airflow and consequently reduce the power consumption and noise emission.

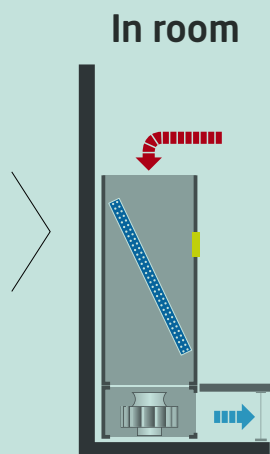
plenumfan



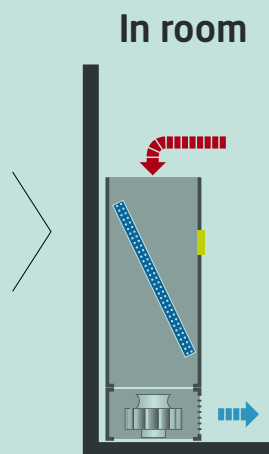
Designed

to suit all
datacenter layouts

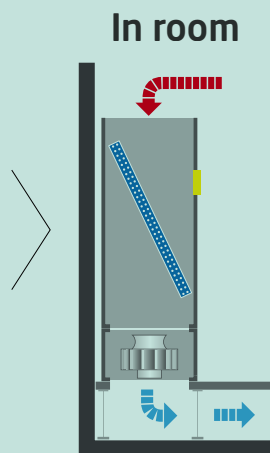
Higher
Raised Floor



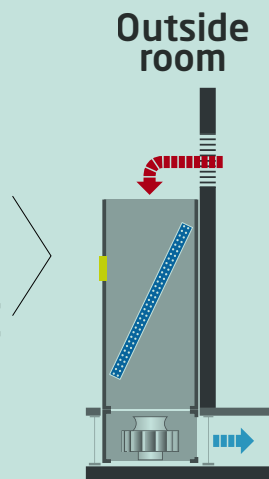
No
Raised Floor



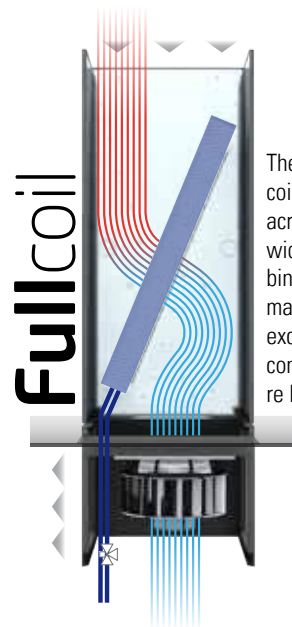
Lower
Raised Floor



Technical corridor
application

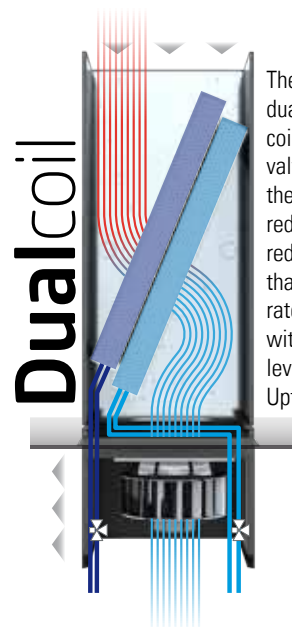


Fullcoil

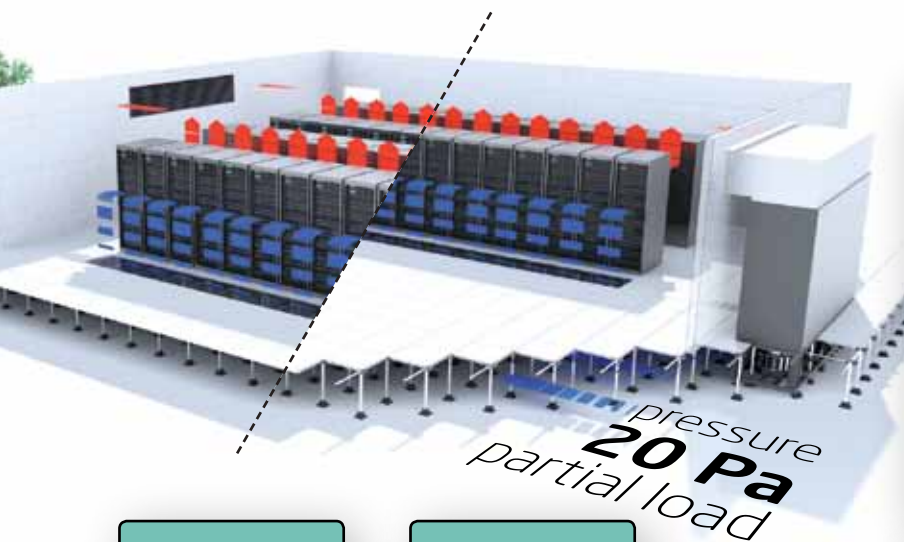


The chilled water coil that extends across the whole width of the cabinet allows to maximize the heat exchange, and to contain the pressure losses aeraulic.

Dualcoil

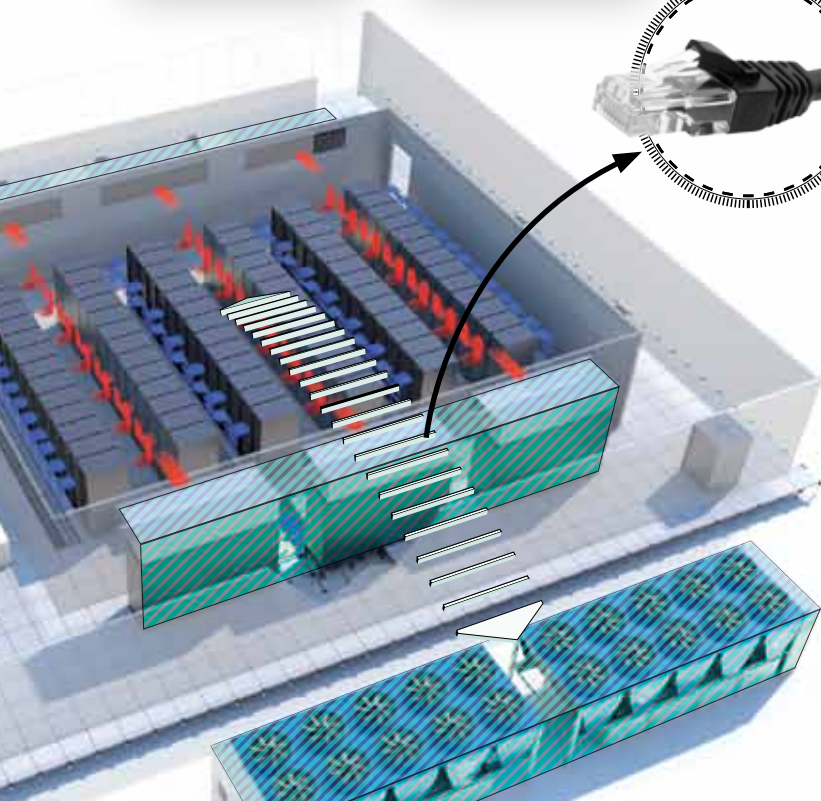


The version with dual chilled water coil and double valve can provide the high levels of redundancy required by data centers that have to operate in accordance with the higher Tier levels (according to Uptime Institute®).



Power mode
60
kW/m²

Energy saving mode
45
av. NSEER



CONTROL OF FLOOR PRESSURE

Control of static pressure of the raised floor allows to constantly adjust the air flow to the real needs of the data center and automatically adapts to changes and expansions.

DATALINK

The local network allows to manage redundancy, to balance the operation, to avoid conflicts and to monitor the operation of all units from a remote display.

CWDS

(Chilled Water Dynamic set)

This solution allows to adapt the the chilled water temperature supplied to Datatech air conditioners to the actual thermal and hygrometric room load.

INSTALLATION & MAINTENANCE



A series of measures such as support for the raised floor and fast electrical connections between fan module and cabinets, simplify operations and reduce installation time.



ITcooling product range



Datatech + > 7÷100 kW

Precision direct expansion air-conditioners, air cooled or water cooled for technological environments. Features all brushless DC inverter driven components.



Datatech /ED > 6÷104 kW

Precision direct expansion air-conditioners, air cooled or water cooled for technological environments. Available also as DC/FC (Dual Cooling/Free Cooling) version.



Datatech /CW > 6÷220 kW

Precision chilled water air-conditioners for technological environments. Available also as DW (Dual Water) version.



Datatech /PFW > 70÷260 kW

Precision high capacity chilled water air-conditioners for technological environments with plenum fan.



Coolblade & Coolmate > 16÷27 kW

Chilled water in-row air conditioners & pumping set for high density IT applications.



Blue Box Group S.r.l.

I - 30010 Cantarana di Cona (VE) - Via Valletta, 5

Tel +39 0426 921111 - Fax +39 0426 302222

www.blueboxgroup.it - info@blueboxgroup.it

12162000002_Datatech PFW_EN