

DATATECH BTD PFW



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

5÷220 kW

BlueBox 
by Swegon

Datatech BTDPFW

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

High sensible cooling per square meter of footprint

Exceptionally high efficiency of EC motor driven plastic impeller radial fans

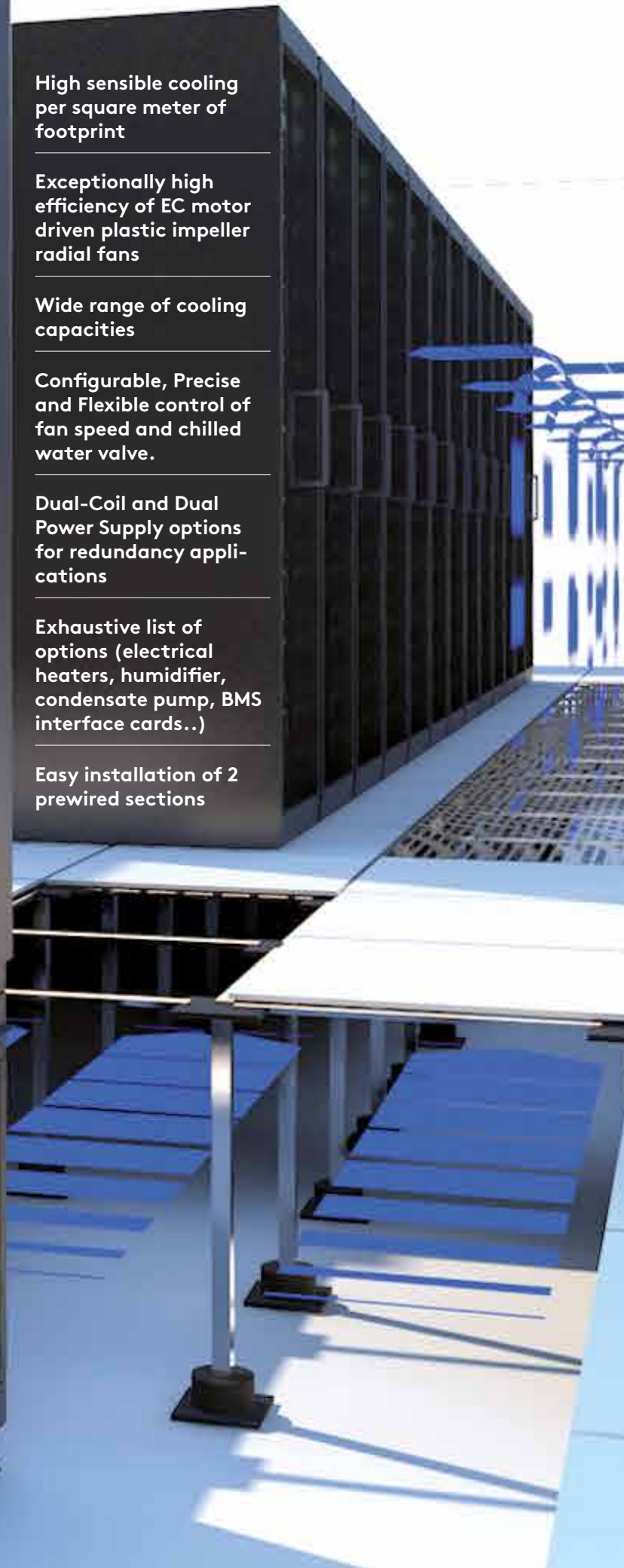
Wide range of cooling capacities

Configurable, Precise and Flexible control of fan speed and chilled water valve.

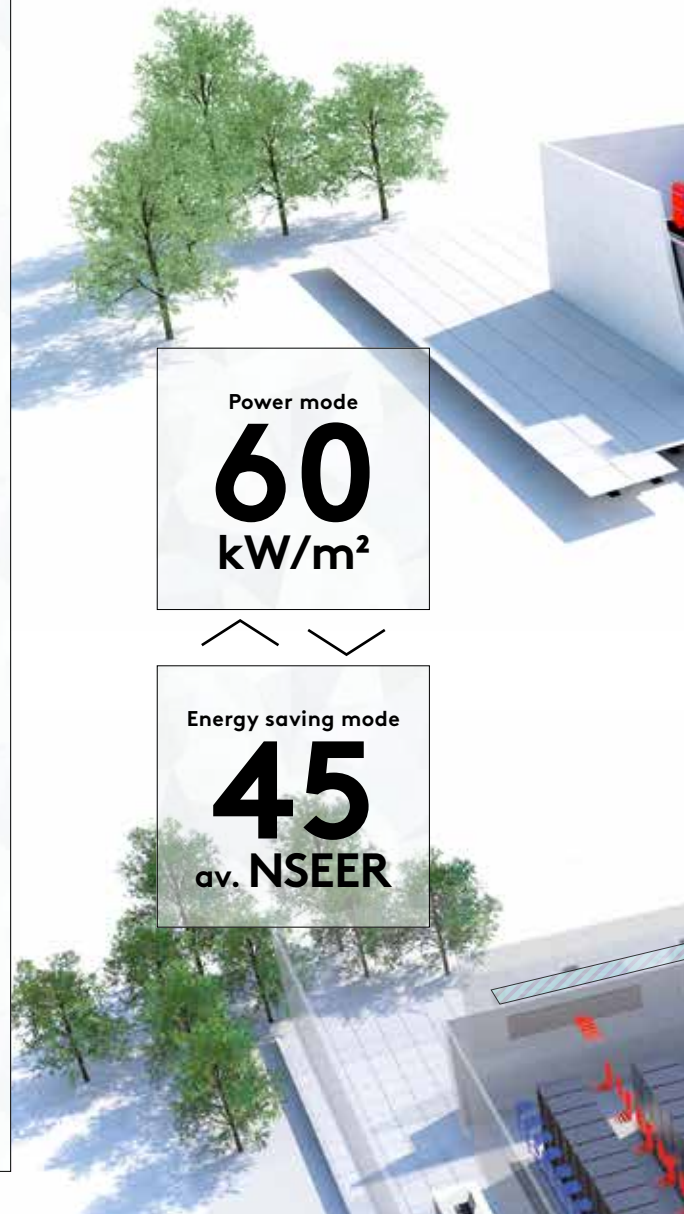
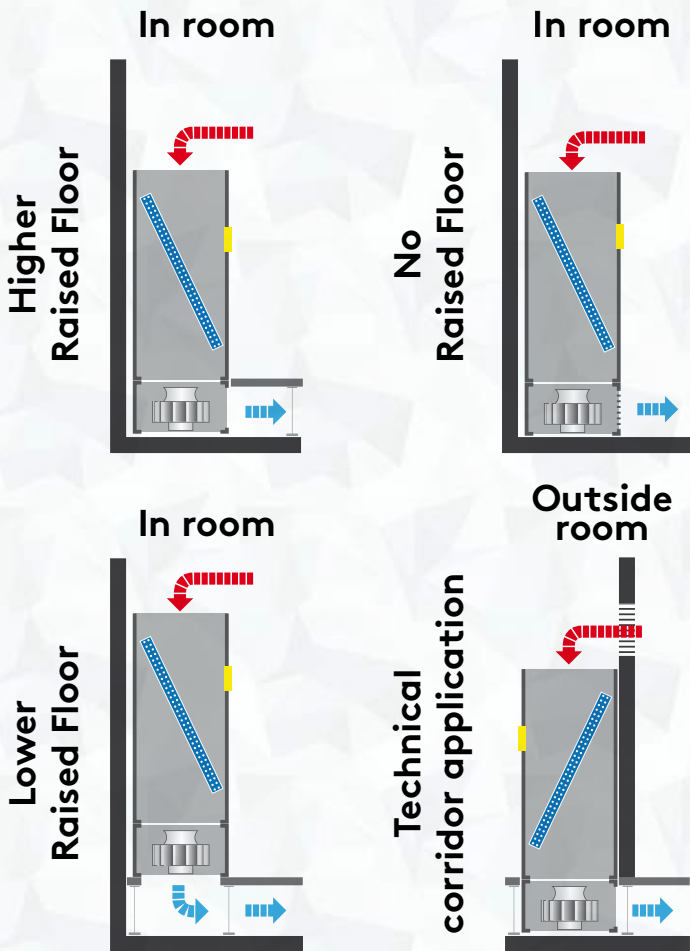
Dual-Coil and Dual Power Supply options for redundancy applications

Exhaustive list of options (electrical heaters, humidifier, condensate pump, BMS interface cards..)

Easy installation of 2 prewired sections



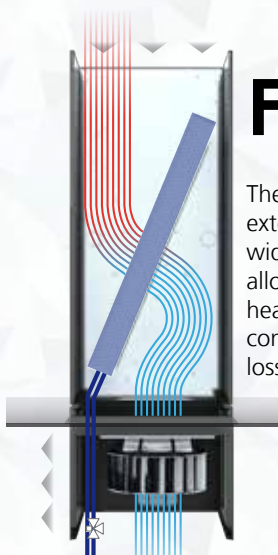
DESIGNED TO SUIT ALL DATACENTER LAYOUTS



Power mode
60
kW/m²

Energy saving mode
45
av. NSEER

CONDENSING COIL LAYOUTS

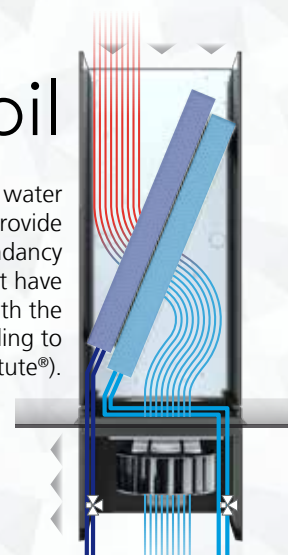


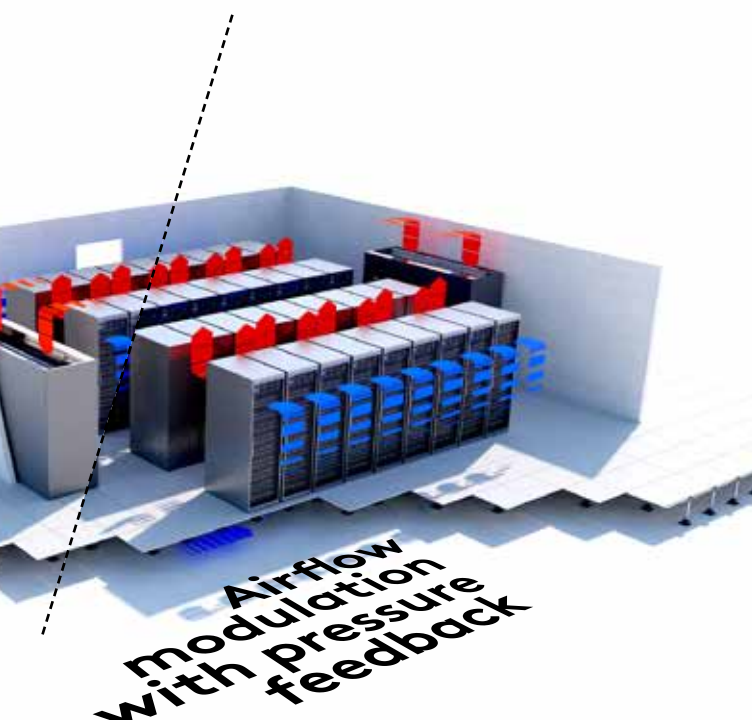
Fullcoil

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 aerualic.

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®).





CONTROL OF AIR-FLOW OR FLOOR PRESSURE

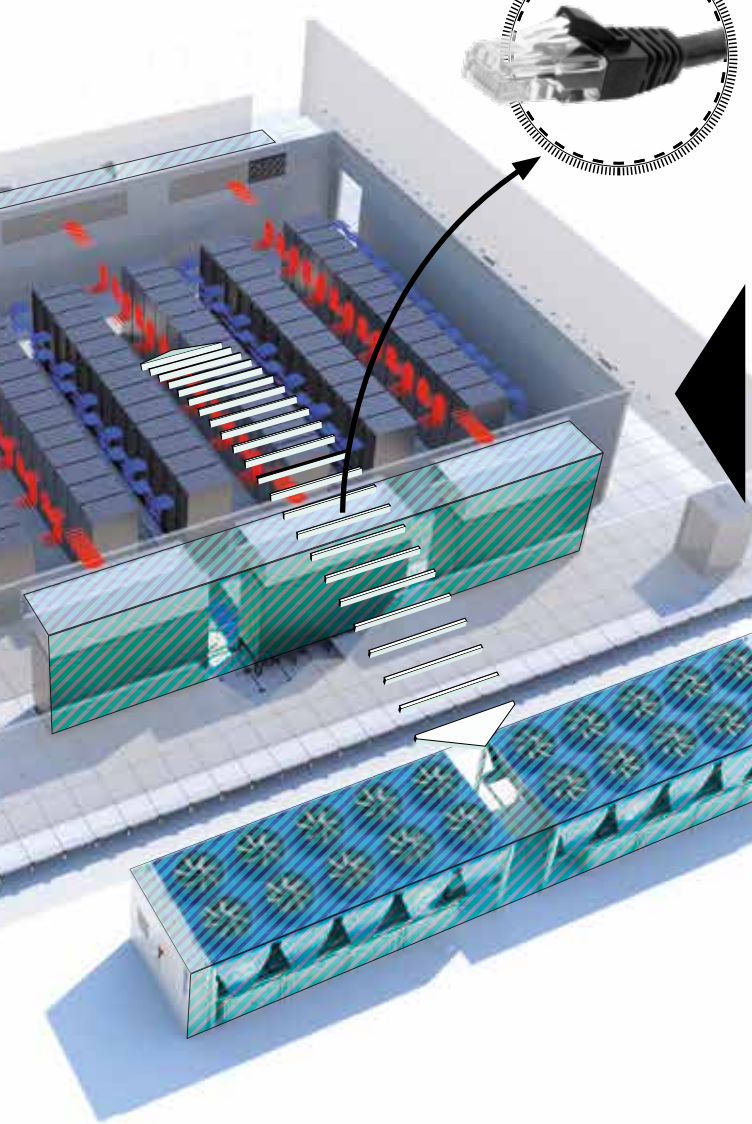
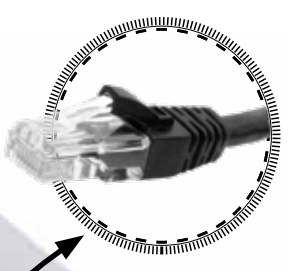
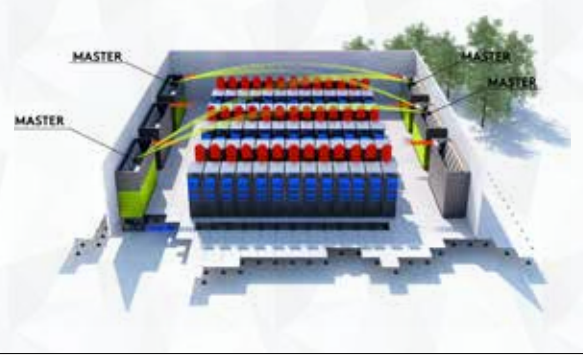


Different solutions for different needs. Both ensuring efficiency improvements at part load, system optimization and reaction to the unpredictable.

Airflow modulation with pressure feedback

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 chilled water temperature supplied to Datatech BTM PFW air conditioners to the actual thermal and hygrometric room load.



INSTALLATION & MAINTENANCE

A series of measures/solutions such as base module shipped preinstalled in the unit, damper embedded on small plenum with fully frontal accessibility, separate compressor sections simplify operations and reduce installation time.

The control platform for IT cooling applications, based on webserver.

Simple & Immediate
Human Machine
Interface

More than 20 years
Experience within Data
Cooling
Requirements



Unique Software
Features

A Control
Continuously Evolving
following the Latest
Industry
Requirements



AUTOMATIC AIR FLOW MODULATION BASED ON:



REMOTE TEMPERATURE

push the fresh air where is needed & control it with smooth and continuous adjustment



REMOTE DELTA PRESSURE

avoid any risk of hot spot optimizing the fan energy consumption

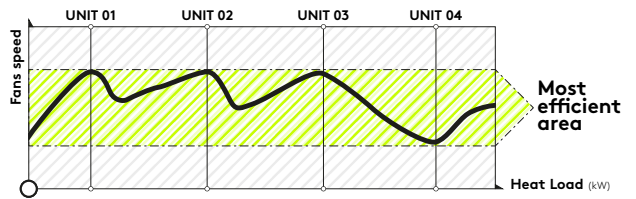


DELTA TEMPERATURE

treat, move and cool only the server's needed amount of air without any waste



**CONTINUOUS
DYNAMIC
OPTIMIZATION**



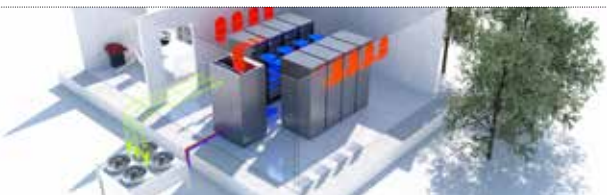
WORK ALWAYS WITH THE
RIGHT NUMBER OF NEEDED UNITS
IN THEIR
MOST EFFICIENCY WORKING POINT



CHILLED WATER SYSTEM

ONE TO ONE MULTISYSTEM

- direct high level communication
- scalable solution (TIER III / TIER IV design)
- variable water flow



INDIRECT FC SYSTEM

FLOATING WATER SET POINT

minimize the overall system consumption

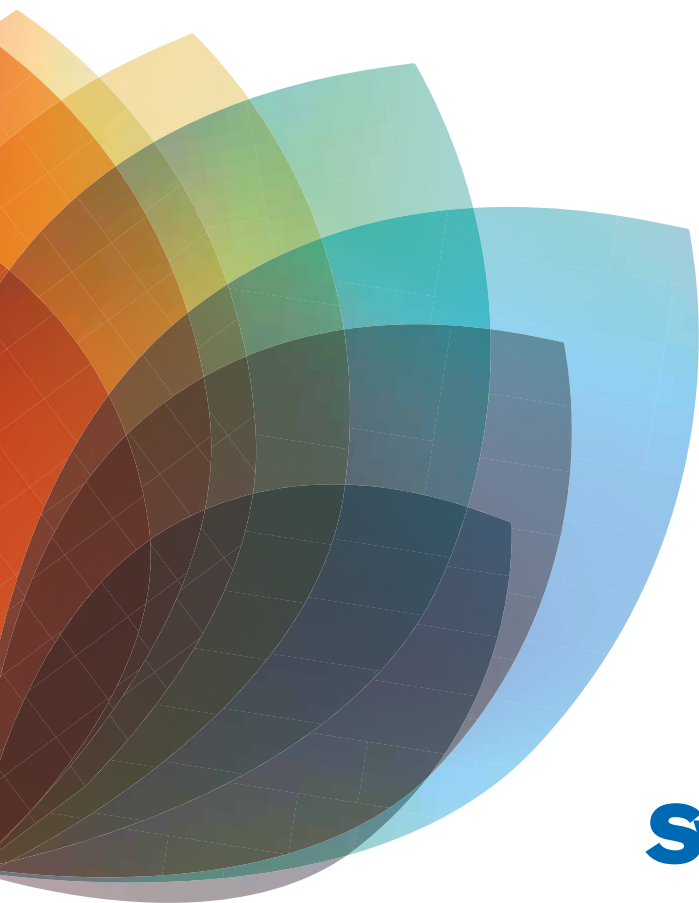


DIRECT EXPANSION SYSTEM

internal unit drive continuously condenser based on application requirements

- homogeneous control
- easier site operations
- adapt to site noise requirements

Feel good **inside**



Swegon 