

DATATECH BTD



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Perimeter Computer Room Air
Conditioners based on direct expansion
or chilled water cooling technology

5÷220 kW

BlueBox 
by Swegon

DATATECH BTD

DIRECT EXPANSION

CHILLED WATER

REDUNDANCY double cooling source

DUAL COOLING SOLUTION



Chilled Water and Direct Expansion in one unit.
With a designed allowing complete DX maintenance while CW is working.

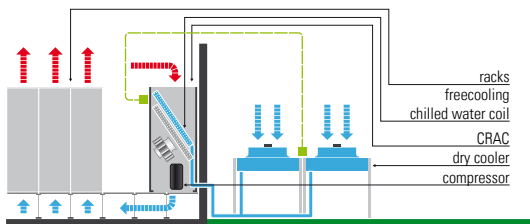
DUAL WATER SOLUTION



2 Independent water circuits with flexible control solutions
(Alternate, Cascade, Parallel).

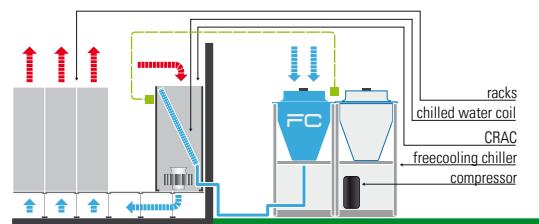
EFFICIENCY Freecooling solutions

INDIRECT FREECOOLING



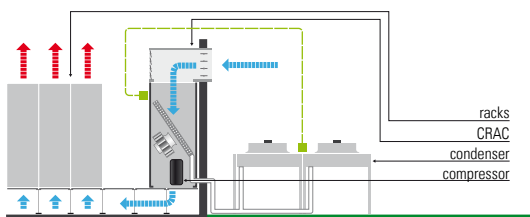
50% saving in Frankfurt with a pay back of less then 2 years*

INDIRECT FREECOOLING



40% saving in Frankfurt with a pay back of less then 2 years**

DIRECT FREECOOLING

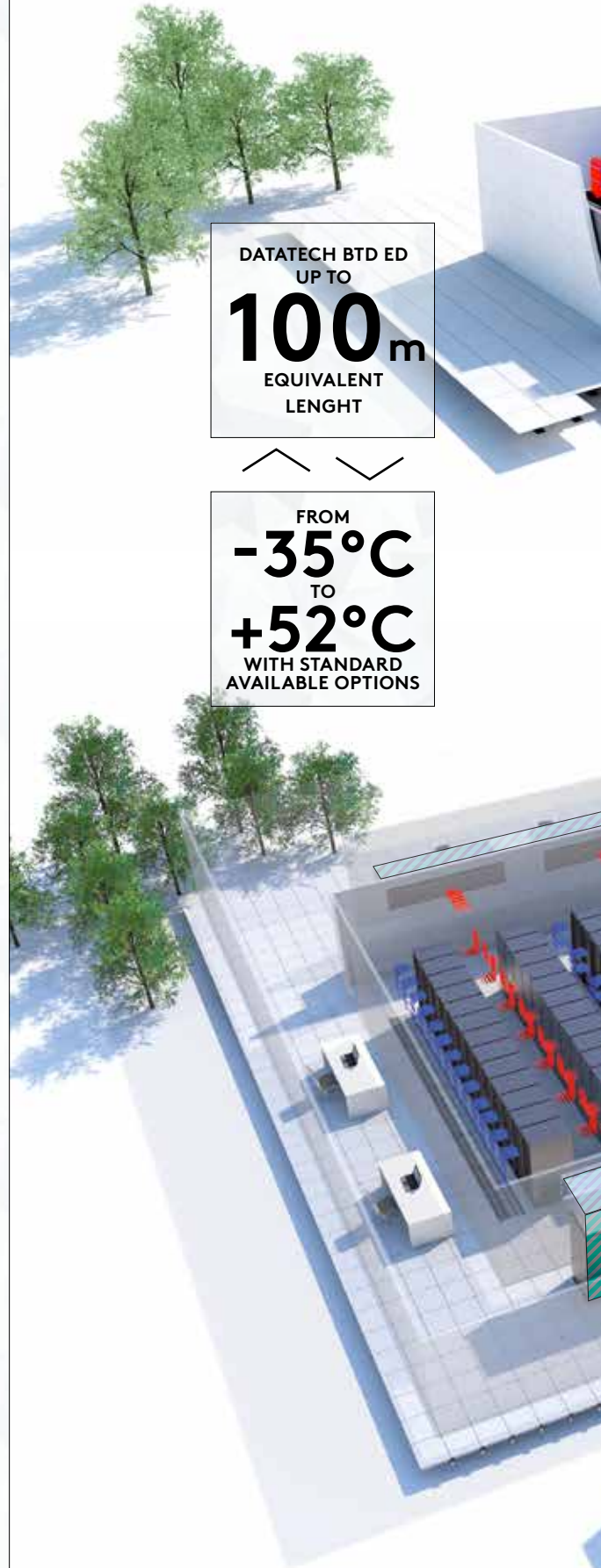
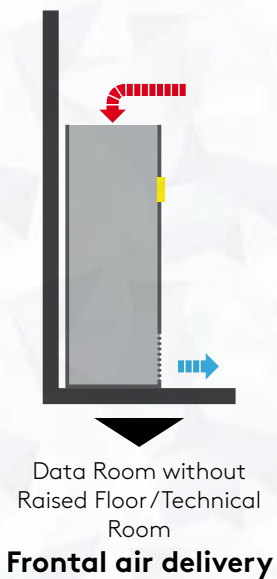
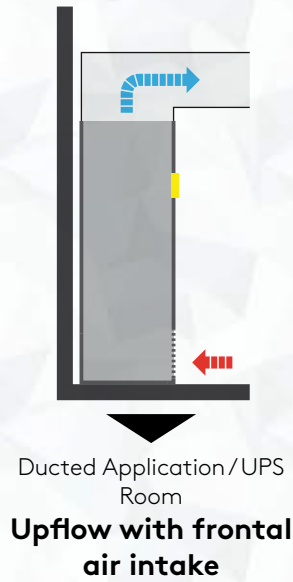
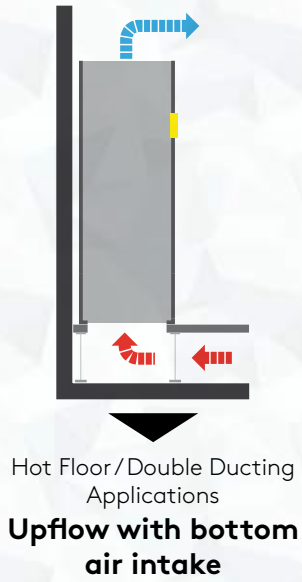
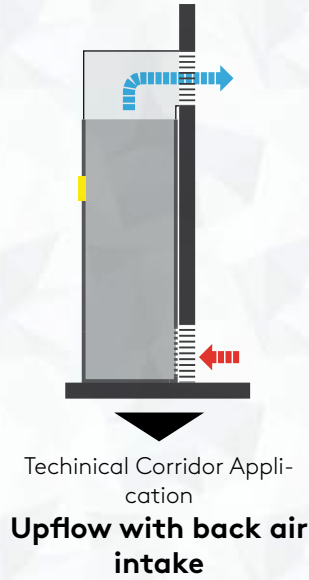
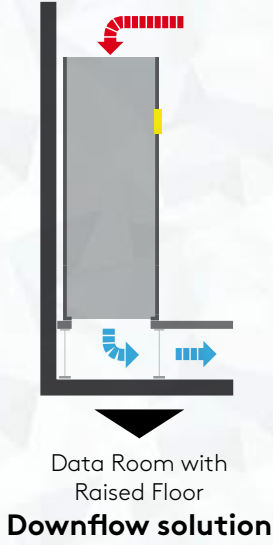


60% saving in Madrid with a pay back of less then 1,5 year*

* 20°C Supply to the servers, comparison versus aircooled system. Single circuit 30 kW unit.

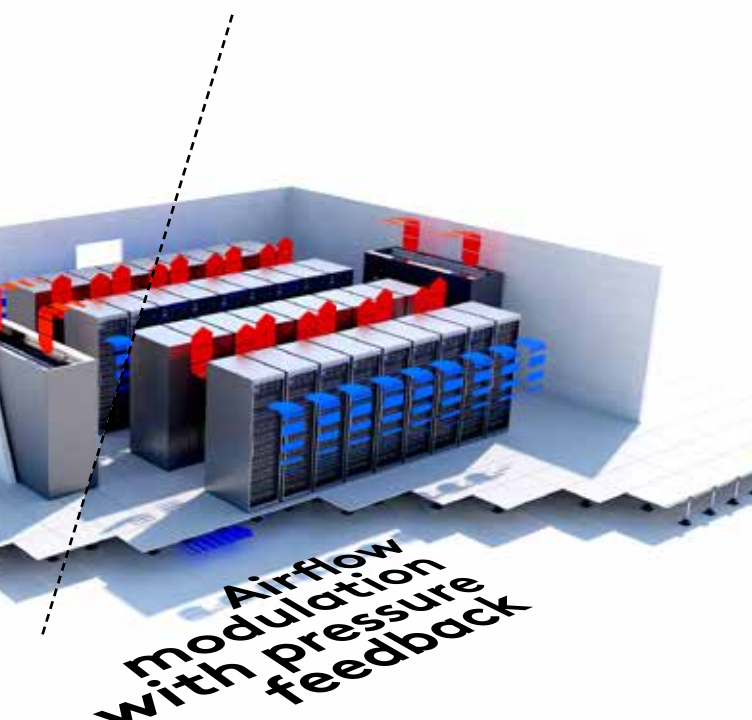
** 22°C Supply to the servers, comparison versus chilled water system without FC. 500 kW Load; N+1 Redundancy.

DESIGNED TO SUIT ALL DATACENTER LAYOUTS / ROOMS



DATECH BTD ED
UP TO
100m
EQUIVALENT
LENGHT

FROM
-35°C
TO
+52°C
WITH STANDARD
AVAILABLE OPTIONS



Airflow modulation with pressure feedback

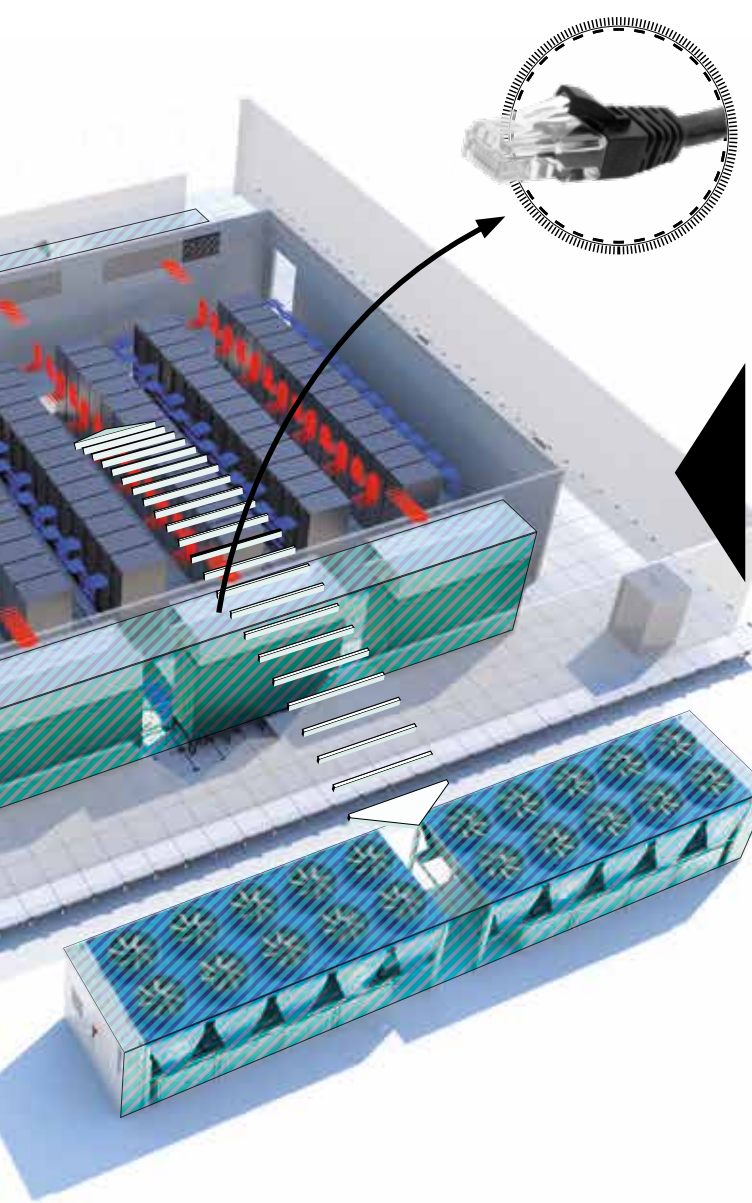
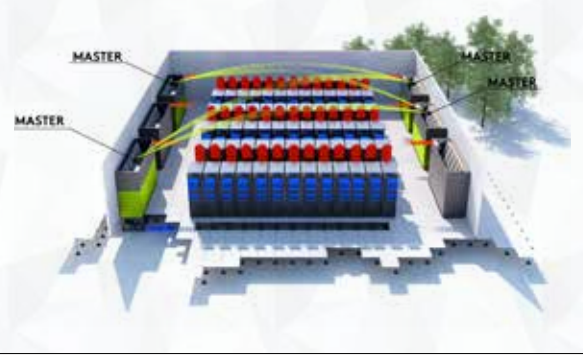
CONTROL OF AIR-FLOW OR FLOOR PRESSURE



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

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 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

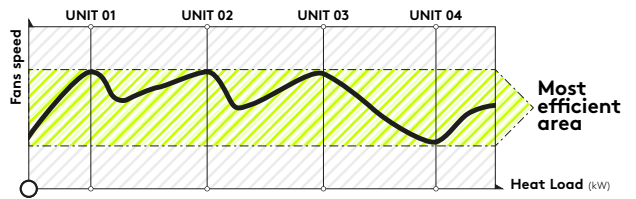


DELTA TEMPERATURE

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

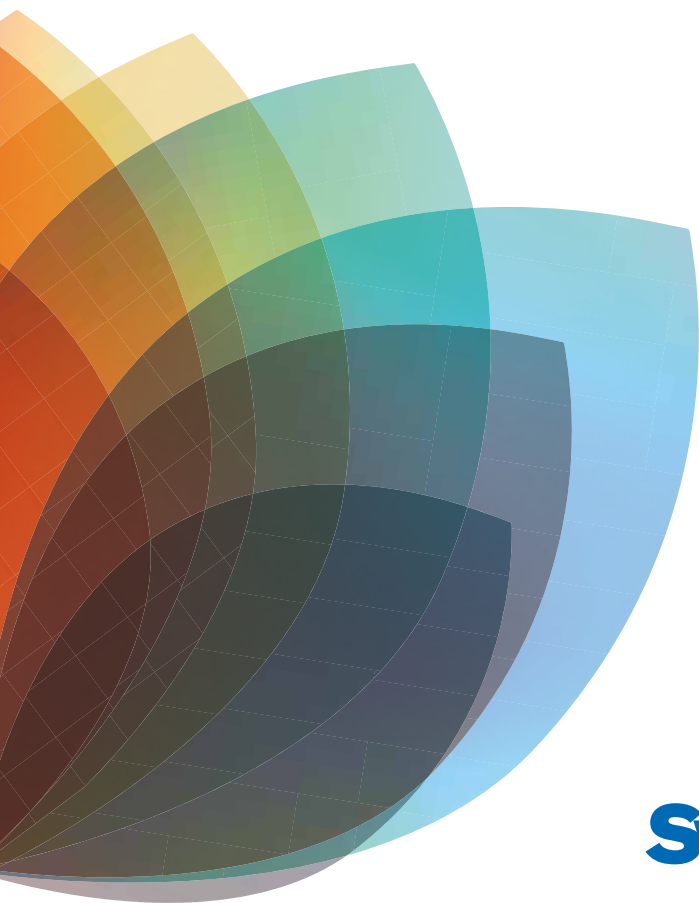


DIRECT EXPANSION SYSTEM

internal unit drive continuously condenser based on application requirements

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

Feel good **inside**



Swegon 