

16÷27 kW



Coolblade

High density cooling system for datacenter

General

This series of units is designed for use in datacenters for the air conditioning of high thermal load density equipment (such as racks housing blade servers) which may need to dissipate up to 30 kW of sensible heat.

Quick facts

- ▶ High heat removal on small footprint
- ▶ Total connectivity
- ▶ Low power absorption
- ▶ Full redundancy option for **Tier IV** datacenter

DATATECH
BlueBox



EER 70*

IN ROW COOLING

only 14 W of fan power per 1 kW of sensible cooling

Coolblade units are in-row chilled water coolers, specifically designed to be placed beside the racks in a typical hot aisle/cold aisle layout.

Coolblade units take hot air exhausted by the racks, and deliver it, cooled down, into the cold aisle.

*At nominal conditions: Air inlet 35 °C 30% RH; Inlet/outlet water temperature 13/18 °C.
Coolblade unit size 30

TIER·IV
READY



REDUNDANCY

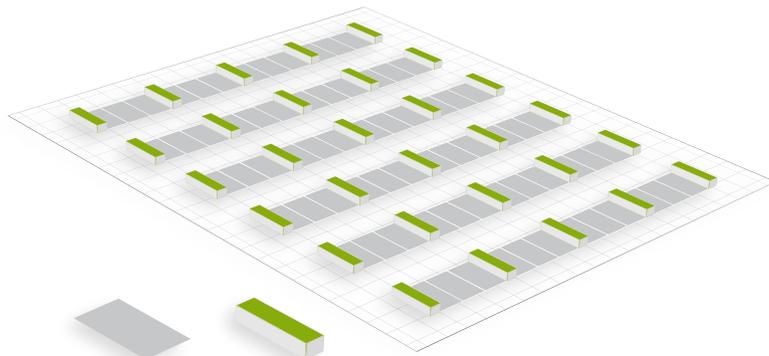
Coolblade units can be provided with full redundant layout: double heat exchanger with double 2-way valve and double power supply with automatic changeover in order to comply with the demanding arrangement of modern **Tier IV** datacenters.

 **Double** circuit

Double 2-way valve

Double heat exchanger

Double electrical supply



IT footprint

COOLBLADE
footprint

COMPACTNESS

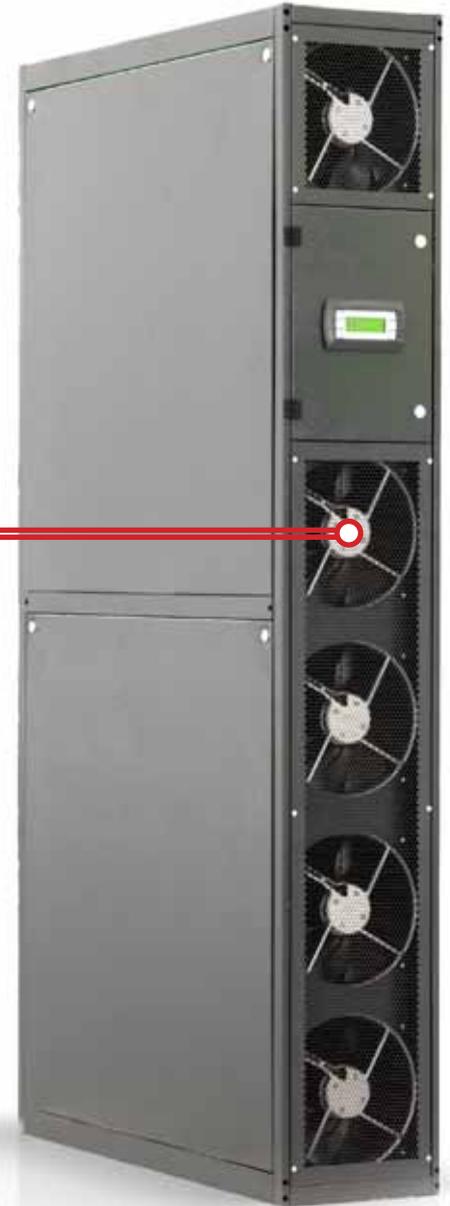
The COOLBLADE unit have the best cooling capacity coefficient per footprint. Thanks to the highly efficient exchangers and the large exchange area, it is possible to achieve a sensible cooling capacity of 27 kW in just 0.3 m².

90
kW/sqm

EFFICIENCY

All COOLBLADE units are provided with **EC** (Electronically Commutated) axial fans with brushless motor and full modulating Microprocessor control in order to match exactly cooling capacity with heat load.

MAX
0,083
kW /fan



TECHNICAL DATA

Unit size <i>Grandezza unità</i>			15	30
Cooling				
Cooling capacity	(1),(2)	kW	16,5	27,2
Air flow	(3)	m ³ /h	3.200	4.800
Dimensions and weight of basic unit				
Length		mm	300	300
Depth		mm	1010	1010
Height		mm	2002	2002

(1) Air inlet 35 °C 30% RH;

(2) Inlet/outlet water temperature 13/18 °C;

(3) G2 filters

This datasheet contains datas referred to the basic and standard version of the products; they could be modified by the Constructor in any moment. For details please refer to the specific documentation.

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Datatech product range



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 + > 7÷100 kW

Precision direct expansion air-conditioners, air cooled or water cooled for technological environments. Available only with brushless DC inverter driven components.



Coolblade & Coolmate > 16÷27 kW

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



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