

# Vertiv™ Liebert® PCW - PWM Model

Up to 250 kW Chilled Water Perimeter Unit For Non-Raised Floor Applications



## Features

- 1 Wide air delivery surface
- 2 Possibility to duct the return air
- 3 Pressure independent control valve
- 4 Latest generation of EC fans
- 5 Cooling override function
- 6 Virtual Display

## How You Benefit

- 1 Reduces air velocity and allows for a good air distribution inside the server room
- 2 No pressurized service corridor and no hot environment for technicians
- 3 System energy efficiency increased due to a better water distribution
- 4 New generation of EC fans improve unit efficiency at the same footprint
- 5 Cooling continuity is guaranteed even in case of a control failure
- 6 All functionalities of the standard display can be replicated through a web browser

## Vertiv Re-designs The Chilled Water Perimeter Units For Non-Raised Floor Applications



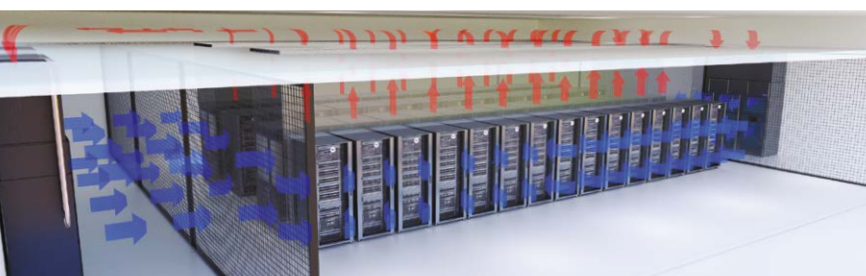
The Vertiv™ Liebert® PCW – PWM model is the answer to data center owners and operators, who are moving to the non-raised floor solutions.

The PWM Model completes the Liebert® PCW family offering a product with a larger air delivery surface for a better air distribution, while granting the same distinctive features of the Liebert PCW-PW family: cooling continuity, energy efficiency and smart control.

Back Air Delivery



Frontal Air Delivery



## Vertiv™ Liebert® PCW – PWM model versions

### Configurations

- From 150 to 250 kw
- From 3 to 4 fans
- Frontal and back air delivery

### Main options:

- Touch screen display
- Pressure independent control valves
- Dual power supply with control power continuity
- Electrode humidifier
- Damper and extension hood



## Cooling Continuity

Liebert® PCW - PWM model maximizes cooling continuity and reliability, matching the requirements coming from the most trusted and adopted certification authorities for data center design and operation. The airflow continuity is guaranteed until the last unit fan can run, a very important feature when the cooling unit is directly connected to the server room as for non-raised floor applications.



## Energy Efficiency

Liebert® PCW - PWM model is designed to set new efficiency standards on chilled-water cooling systems for data centers. The unit's internal design combines market leading technologies and optimizes the aerodynamic impact of all the internal components. Its large surface area grants a good air distribution specifically for non-raised floor applications.



## Flexibility

Liebert® PCW - PWM model perfectly adapts to each data center's room air and water temperature requirements. This unit is extremely flexible in terms of chilled water connection types, electrical arrangements and airflow configurations, where, for instance, the unit can be installed on the server room (for frontal air delivery configurations) or in the service corridor (for back air delivery configurations).



## Vertiv™ Liebert® iCOM™ Smart Control

Liebert® iCOM™ control manages and optimizes the overall system. It is fully programmable via an advanced and user-friendly touch display and can be linked with common BMS protocols, allowing remote supervision. A specific algorithm has been developed in order to better control temperature, humidity and airflow for non-raised floor applications.

## Vertiv™ Liebert® PCW - PWM for Non-Raised Floor Application

Unit			PWM15	PWM25
<b>Single Circuit - Cooling Capacity</b>	Net Sensible Cooling Capacity - Smart Coil	kW	150	250
<b>Power input</b>		kW	7.07	15.3
<b>Airflow Range [%]</b>		m3/h	15000 - 52000	25000 - 71000
<b>Spare Capacity</b>		%	12%	5%
<b>Dimensions</b>	Length	mm	2550	3400
	Width	mm	1050	1050
	Height: Coil + Fan	mm	3050	3050
<b>Unit Configuration</b>	Frontal Air Delivery		•	•
	Back Air Delivery		•	•

### Operating Modes

Back Air Delivery - Smart Coil - RAT 36°C 30% RH; Water I/O 18°C - 26°C; ESP 50Pa

EC Fan Advance - HE

**Vertiv.com** | Vertiv Infrastructure Limited, Fraser Road, Priory Business Park, Bedford, MK44 3BF, VAT Number: GB605982131

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