



Vertiv™ Liebert® Air Handling Unit (AHU)

High Capacity Cooling Solution



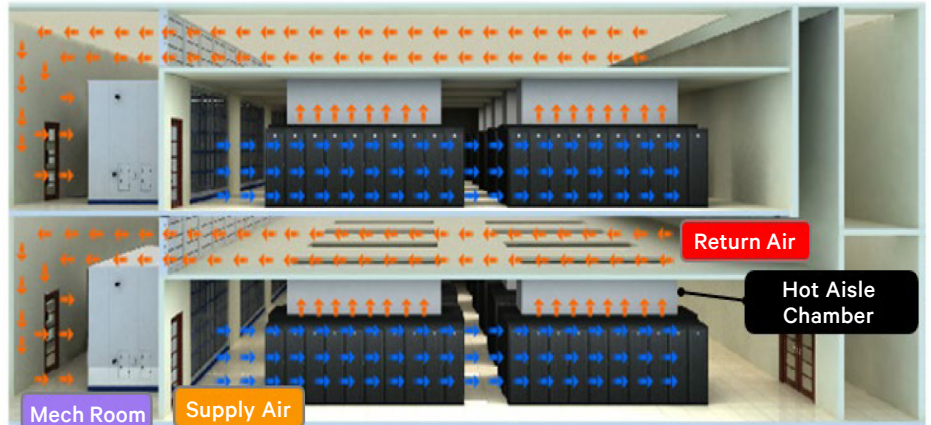
Vertiv™ Liebert® Air Handling Unit (AHU)

Non-Raised Floor Cooling Solution

The adoption of hyper converged infrastructure and deployment of computing-intensive workloads such as Artificial Intelligence (AI), Internet of Things (IoT), and Big Data have been scaling the growth of the global data center market (annual growth rate (CAGR) of more than 17% from 2019 through 2023*). In the present era cooling accounts for the largest pie of energy consumption in the data center after the IT infrastructure. So the data center managers are emphasizing thermal reliability with sustainable configuration, operational cost reduction, and optimizing thermal management in terms of cooling effect, optimized airflow and space management.

There are various pros and cons of using raised floor vs simply dropping cold air from the top through air ducts. Recently there is an another angle to explore to maintain uniform airflow i.e., Fan Wall configuration.

Choosing an optimized & new generation cooling unit is one such approach that delivers an efficient and less costly cooling solution.



**Global Data Center Market 2019-2023,* July 2019, Infiniti Research Limited

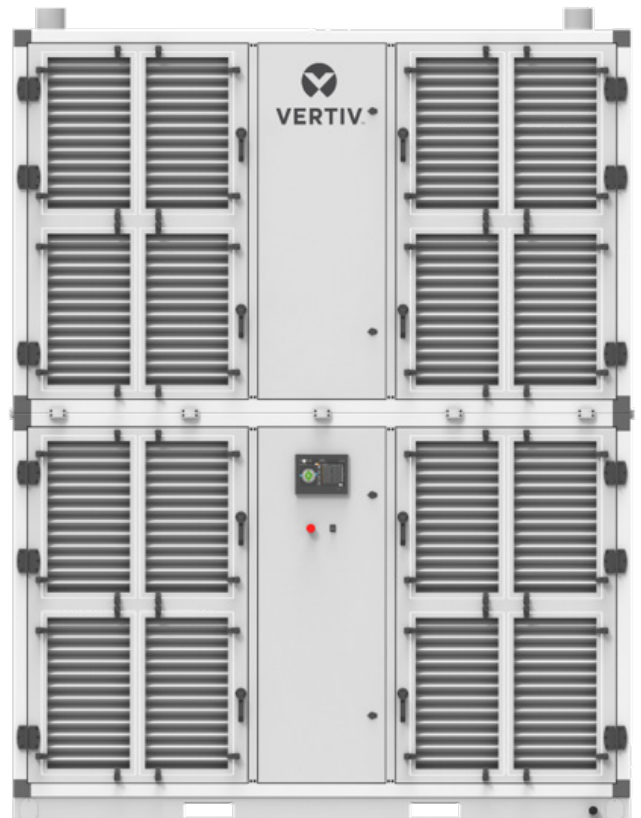
Introducing Liebert® AHU, designed for data center without raised floor

Attributes:

- Perimeter chilled water unit consists of lower & upper section
- It can handle high air volume to 65000 CMH & high ESP to 100 Pa
- Liebert AHU doesn't occupy white space in data hall
- It operates with higher return air temperature and require a higher temp of chilled water.

Liebert AHU includes:

Standard Components	Optional Accessories
4 nos EC fan	Ultra Cap/Mini UPS for controller
4 nos Air Damper with actuator	Airflow meter
Chilled Water cooling coil	Supply air pressure sensor
Water Valve and EPIV	MERV 11 filter
MERV8 Filters	PICV (Pressure independent control valve)
Intelligent Controller	Power Meter
Temperature Sensors & ATS	Smoke detector





What is different with Liebert AHU?

- No underfloor plenum (airduct) to distribute airflow
- Power and network cabling is all overhead
- Requires - Mandatory Hot Aisle Containment

Benefits

- Reduced first cost
- Reduced deployment time

Actions & Developments

- Reduced leaving air velocity at AHU
- Hot aisle containment
- Intelligent control method

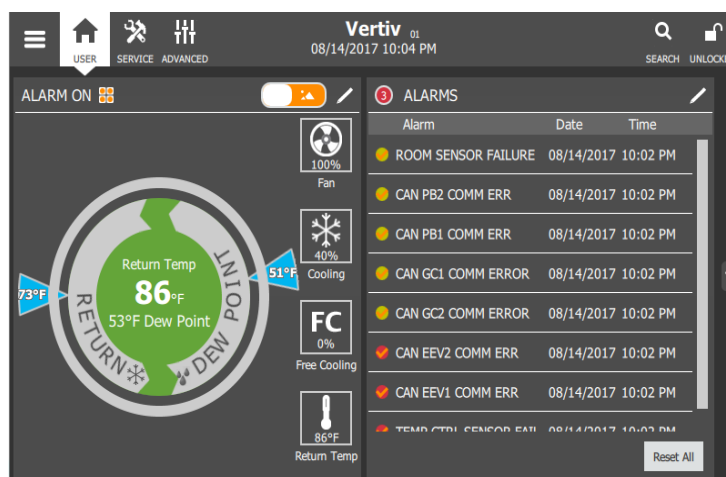
Features ✓	Benefits +
Non raised floor solution	Easy to deploy & cheaper solution
Compact footprint	Reduce size & freight cost
Sheet metal structure 1.5G anti-seismic	Robust & longer life structure with safety
Higher Air volume	Single unit serves more racks
Higher CW temp	Chiller efficiency increases
CE Certified	Quality & Efficient product solution
Intelligent Control	Plug-n-play & Quick restart
Hot Aisle Containment	Supply & Return air not mixed

Advanced Controls for Efficiency, Protection, & Insight

Liebert® Air Handling Units (AHU) encompasses Liebert® intelligent controllers, wired or wireless rack sensors, and a Liebert® central optimizing system control to ensure that the entire data center system is optimized with other components of the chilled water system. Various teamwork modes harmonize the operation of multiple air handling units to eliminate conflicts in temperature, airflow, and humidity.

Simplified Maintenance

Maintenance can be performed easily and quickly. All of our solutions are backed by local customer engineers with decades of data center experience and a network of factory-trained service technicians.



Technical Parameter

Parameter	Technical Details
Model	FA065HC
Structure*	Aluminium frame & Galvanized Steel frame
Sensible Cooling Capacity (kW)**	300
Air flow volume (CMH) & ESP (Pa)	65000 & 100
Electrical Connection	380-415 V/3 ph/50 Hz/60 Hz+N
Dimension (W X D X H) (mm)	2800 X1600 X 3600
Weight (kg)	2800

* Sheet metal is available on request

**RAT 35 °C & CHW In/Out: 15/22 °C



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