

LIEBERT® CUSTOM AIR HANDLING UNITS

Thermal Management Solutions for Large Data Centers



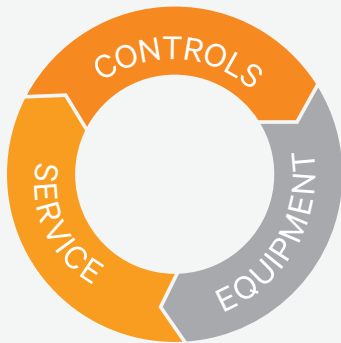
BENEFITS

Delivers

- Industry best delivered efficiency – annual PUE < 1.2
- Industry's most advanced Control and Performance Optimization
- Availability approaching 100%
- Maximum customer design and control flexibility

Liebert Custom Air Handling Solutions

- Advanced data center control and optimization
- Next generation components and equipment
- Industry best service offerings



Advanced Data Center Control and Optimization

- Choice of control strategies including Optimized Aisle™
- Multi-Unit teamwork with fan speed coordination and predetermined sequence of operation
- Global platform with proven operational routines
- Simple BMS integration
- *Trellis™* Installed advanced applications

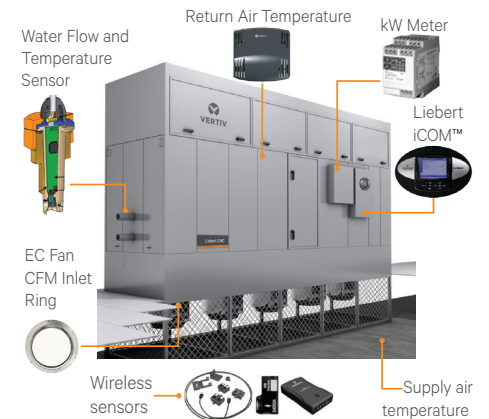
Next Generation Components and Equipment

- Highest quality design, material and construction
- State of the art, high efficiency components and systems
- *Trellis* Installed intelligent sensors

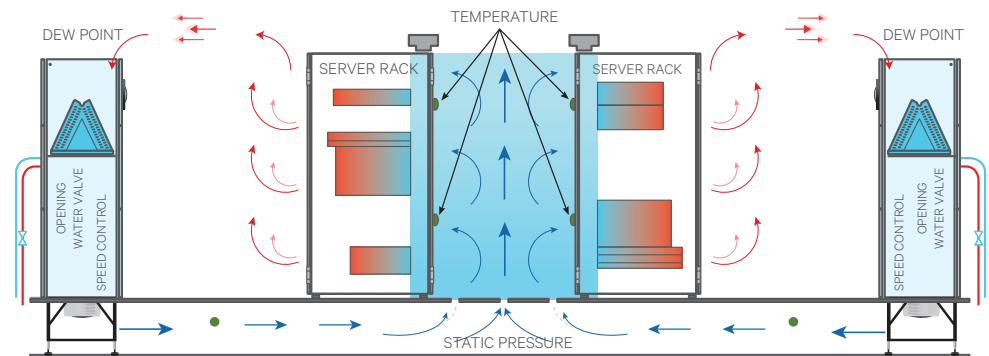
Industry Best Service Offerings

- Nationwide service through local factory trained technicians
- 24-hour customer and tech support
- Guaranteed 4 hour response time for contract customers
- Remote Monitoring delivered by data center experts
- Energy optimization services

Trellis Installed Intelligent Sensors



Optimized Data Center Control with Multi-Unit Teamwork



Maximum Customer Design and Control Flexibility

Chilled Water

- EC or direct drive fans with VFD options arranged in single or fan array configurations
- Optional air economization for optimum efficiency



Liebert Chilled Water Air Handler

Indirect Evaporative

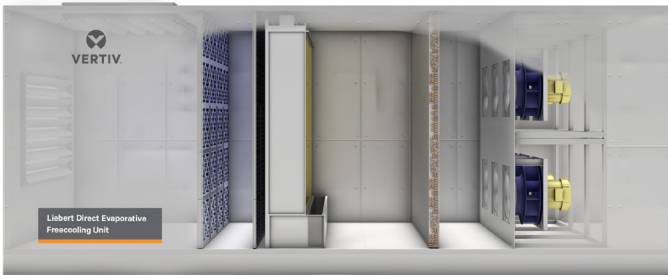
- PUE < 1.2 with minimal water usage
- Highly efficient aluminum air-to-air heat exchanger offers up to 66% efficiency dry and 78% efficiency wet
- Supplemental DX or chilled water options available for trim cooling requirements



Liebert Indirect Evaporative Freecooling Unit

Direct Evaporative

- PUE < 1.1 with minimal water usage
- DX or chilled water secondary cooling options sized for full or trim cooling
- EC or direct drive fans with VFD options arranged in single or fan array configurations



Liebert Direct Evaporative Freecooling Unit

Direct Expansion

- High quality, highly efficient rooftop DX solutions specifically designed for data centers
- Configurations incorporate outside air economization, variable capacity compressors, bypass dampers, and evaporative condensers



Liebert DX Air Handler

	CAPACITY	AIR FLOW	CONFIGURATIONS
Liebert Chilled Water Air Handler	200 – 600+ kW	25,000 – 80,000+ CFM	Indoor Unit – Downflow, Upflow, or Horizontal Airflow
Liebert Direct Evaporative Freecooling Unit	150 – 600+ kW	20,000 – 80,000+ CFM	Data center, gallery, rooftop or external building perimeter
Liebert Indirect Evaporative Freecooling Unit	150 – 400+ kW	20,000 – 60,000+ CFM	Rooftop or external building perimeter
Liebert DX Air Handler	150 – 600+ kW	20,000 – 80,000+ CFM	Rooftop or building perimeter

Contact your local representative to learn more about air handler unit customization options. EmersonNetworkPower.com

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