

Overview

Thermal management in today's complex data centers is no longer just about ensuring uptime. While that continuity is critically important, companies that get thermal management right, are able to drive costs out of the business and create sustainable operations for market differentiation.

Getting it right means having a way to consistently monitor and manage data center cooling systems. With easy access to actionable data via a user-friendly interface, operators can optimize performance, ensuring efficiency.

Liebert® iCOM™-S from Vertiv™ is the software solution that enables this activity. Whether installed on a Vertiv™ control panel, personal PC or corporate server/VM, having access to thousands of data points across your network allows you to establish automation that maximizes uptime and energy savings.

Benefits

- Simplified, automated integration that reduces human error
- Substantially decreased deployment and integration time
- Increased access to data for better data integrity and system visibility
- Up to 35% thermal energy reduction via advanced control algorithms
- Accelerated return on investment that is approximately one year for typical installations

Data center builds or expansions take considerable time and resources, so implementing a software solution that can streamline the deployment of cooling systems makes complete business sense, especially when that solution comes from the market leader in thermal management and gives you the added monitoring and optimization capabilities that enable cost-saving energy efficiency.

Liebert® iCOM™-S speeds deployment times with auto discovery of Vertiv™ devices and use of intelligent system diagnostic tools. The software solution also includes building management system (BMS) integration wizards that give you increased access to data and capabilities not available with other systems.

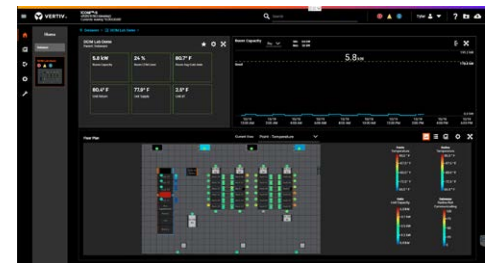
Dynamic incorporation of newly added equipment into the system metrics and calculations eliminates the need for costly re-programming typically seen in third party systems.

When a device does not perform as expected upon commissioning, costs increase, and reputations are impacted until the issue is addressed. This is why Liebert® iCOM™-S comes with enhanced views of system data including dedicated commissioning and reporting screens.

By quickly aggregating connected device data and presenting configuration values, Liebert® iCOM™-S saves time during integration by preventing common issues caused by misconfigured devices.

The software also saves you frustration by simplifying data ingestion and communication of this data to other externally connected systems.

Once the thermal management system is fully integrated, Liebert® iCOM™-S uses advanced automation algorithms and tools like hot spot protection to help you control cooling settings and energy usage. This automation can increase energy savings up to 35% and ensure ongoing optimal conditions for critical equipment. In fact, a typical installation can pay for itself in approximately one year.



Room layout view with cold-aisle air properties



Room layout view with unit selected legends

Version Specifications

To take full advantage of the automation and optimization features of the Liebert® iCOM™-S software solution, implement the more robust Optimize version. To improve visibility and insight while having a more integrated system, the Monitor version of Liebert® iCOM™-S software may be right for you. The Monitor version can be seamlessly upgraded as needed to support your changing infrastructure and business needs.

Feature	Liebert® iCOM™-S Monitor	Liebert® iCOM™-S Optimize
Thermal system monitoring and management	•	•
Single interface for connected devices	•	•
Auto discovery of devices	•	•
BMS integration wizards	•	•
Dedicated system diagnostic programs	•	•
Bulk threshold configuration	•	•
Historical data of measured points	•	•
Drag and drop floor builder	•	•
Device groups for control of multiple environments		•
Thermal system automation and control		•
Simplified hot spot protection		•
Optimization for measurable energy savings		•

Integration with Vertiv™ Wireless Sensor Network (WSN)

When used with Vertiv™ WSN, Liebert® iCOM™-S provides access to additional types of data gathered by sensors. This more robust level of data enables enhanced analysis and provides system insights that other monitoring systems neglect. In addition to temperature and battery voltage data, users have access to humidity, wireless signal strength, external battery source, battery alarms, and sensor faults. Additionally, the interface for Liebert® iCOM™-S can be used to integrate, remove and control sensors; update firmware; or fully reboot the Vertiv™ WSN gateway without navigating directly to that gateway's interface.

Deployment Options

Deployment Type <i>(Approximate device quantities that may vary based on application)</i>	1U Form Factor	Touch Screen Panel	Installed Software <i>(customer provided VM/Server)</i>
Small: Up to 20 Thermal Units + 100 wireless sensors	Best	Better	Good
Medium: 20 to 75 Thermal Units + 250 wireless sensors	Good	Better	Best
Large: More than 75 Thermal Units + 900 wireless sensors	— —	— —	Best (iCOM™-S GW required)
Cross Network Device Communication	iCOM™-S GW Required (Optional if not specifically labeled)		