

# THERMAL CONTROL OPTIMIZATION

Assessment & Optimization Services



## BENEFITS

### Optimize Performance and Boost Efficiency

Thermal systems have become increasingly complex while data center environments are constantly changing. Additionally, energy efficiency has become a top concern because of the demand within nearly every organization for greater computing capacity.

It is increasingly important to have a way to adjust cooling in order to operate efficiently. Use of intelligent controls brings high-level supervision to multiple thermal units and is an excellent approach to achieving energy efficiency goals.

However, expertly optimizing controls is how to truly realize peak performance. It is the extensive thermal management experience and end-to-end data center knowledge had by Vertiv™ that makes our thermal control optimization so effective.

### Benefits

- Improve thermal system management due to integration and optimization
- Maximize energy efficiency
- Improve availability
- Enable an increase in capacity



### Realize more uniform and efficient cooling with thermal control optimization performed by industry experts

Having the right thermal management components to support your data center's critical IT and communication systems is important for ensuring availability, but properly configuring those components is how to meet changing demand.

Working with the industry leaders of Vertiv™ to customize control features will help you realize increased capacity, improve efficiencies, and optimize the performance of an integrated infrastructure.

Our thermal control optimization includes:

- Expert consultation
- Configuration of set points
- Control and setting review
- Optimized Aisle Control configuration

## Expert Consultation

The thermal infrastructure specialist of Vertiv™ consult with you to gather your equipment's model and serial numbers, and quantity of units. Additionally, an on-site visit occurs to define your unique needs and determine a plan for thermal control optimization.

## Configuration of Set Points

Ensuring the proper set points for thermal controls, with the help of our experts, is a key element of the optimization process. Consistent set points reduce energy consumption, improve compressor life, and reduce "fighting" between units due to excessive humidification or dehumidification.

## Control and Setting Review

Vertiv's experts will work with you to determine the most appropriate controls, their settings, and how to network them. This networking is determined through direct consultation covering your system's equipment type, options utilized, thermal load, location and more. During the control and setting review, advanced controls may be adjusted to eliminate excessive dehumidification, maximize free cooling, and cut down on wear due to the start and stop of compressors.

## Optimized Aisle Control Configuration

When an optimized aisle is part of your data center, our thermal infrastructure specialists will help configure remote sensors, recommend sensor locations, and configure your control's Teamwork Mode 3.

## Summary

Ensuring data center availability relies on having the right thermal system components properly configured to match load demand. And thermal control optimization from industry experts ensures that your system is operating as efficiently as possible.

By working with Vertiv, you'll benefit from unmatched technical knowledge and resources needed to customize your data center's thermal management system. Our factory-trained specialists work with you to determine the best controls and set points for your unique space. The result is a fully integrated thermal management system optimized to support your entire data center infrastructure.

## Ordering Information

To learn more about this service and other Vertiv solutions, visit [VertivCo.com](http://VertivCo.com) or call 1-800-543-2378.