

Save Energy with Increased Cooling Capacity

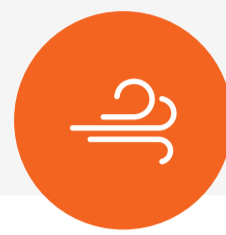
Q: How does one address –



Humidity Fluctuations

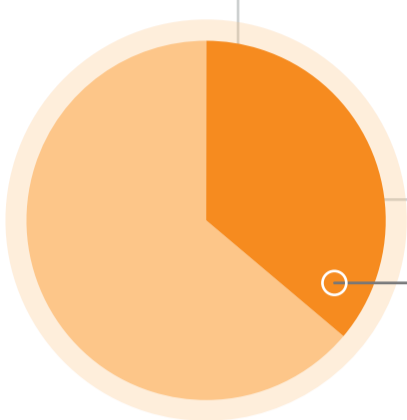


Hot Spots



Air Delivery Problems

– while keeping costs and energy usage low within current data center footprint?



36% of respondents claimed they would run out of capacity in the near term.¹

A: SynapSense®
Cooling Optimization Solution

– a turnkey, wireless monitoring and cooling control solution with rapid ROI.

The approach:



Assess



Monitor



Optimize

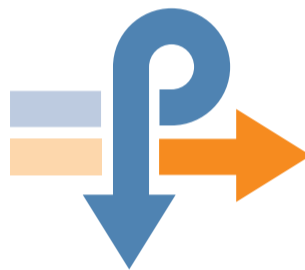


Control



Maintain

Panduit's experts start by developing a roadmap:



Level 1:

- ▶ Alarms and alerts set to basic thresholds
- ▶ Software mapping to stay ahead of issues

Level 2:

- ▶ Determining areas that can be optimized for energy and cost savings or capacity recovery

Level 3:

- ▶ Automatic data center monitoring
- ▶ Automatic level adjustments

The Benefits of Cooling Optimization:

- 50%** Reduce cooling energy utilization up to 50%
- Identify and solve inefficiencies in data center
- Avoid the need to purchase new equipment
- Automate management of temperatures and fan speeds
- See trending views of recent or historical points and levels

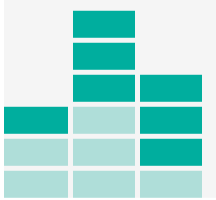
Case Study Communications Company:

60,000 ft² data center **4,300** sense points **\$630,000** invested in the SynapSense® System

Resulting Benefits:

\$186,000 in annual energy cost savings
23% reduction in cooling energy
\$75,000 rebate from energy provider
26-month ROI

SynapSoft® works with SynapSense® wireless sensors and gateways to monitor, manage, and control the optimization of cooling with:



Dynamic Visualizations



Automated CRAH Temperature Set-Points and fan speeds



Configurable Alerts and Alarms



Environmental Data Analysis Reports

Conclusion

A wholly integrated data set across every key piece of equipment means –

- A new level of management analysis and intelligence
- Improve operational efficiency
- Identify and solve inefficiencies quickly
- Reclaim stranded capacity and avoid equipment expenditures

Panduit Thermal Management Solution offers a full range of cabinet, rack, and cable management systems:

Cool Boot® Raised Floor Air Sealing Grommets
Net-Access™ Cabinets and Sealing Accessories
Net-Access™ In-Cabinet Ducting
Net-Contain™ Universal Aisle Containment

¹ The 451 Group