

HotSpotr™

The Fastest and Best Way to Eliminate Data Center Hot Spots

If your data center has hot spots — cool them with HotSpotr™



The HotSpotr™ Story

Hot Spots Are Localized

Data center hot spots typically result from five factors:

- concentrated server heat production
- too little cool airflow to densely populated racks
- invisible vortices under the floor
- obstructions in the room
- hot air sneaking into the intakes of your rack-top servers.

HotSpotr™ eliminates the heat build-up these factors cause.

Hot Spots Need More Supply

Most data centers have 2 to 3 times as much cooling as they need for their server load, according to the Uptime Institute. HotSpotr™ moves your expensive chilled air to your hottest racks.

Hot Spots Need Exhaust

Most racks that get hot stay hot because the hot air cannot escape. A HotSpotr™ powered overhead return drives the hot air back to the CRAC, removing the heat and improving the performance of your CRACs.

HotSpotr™ Supplies a Package

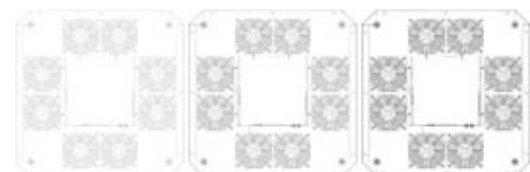
We furnish a complete package. Depending on which model you buy, each HotSpotr™ package contains a powerful airmover, ducting, sensors, cabling, controls, indicator LEDs and instructions. HotSpotr™ packages are available immediately from stock.

Installation Is Easy

Your installation team can install HotSpotr™ into your data center without interrupting its operations - no downtime required!

HotSpotr™ Is Scalable

Each HotSpotr™ package will eliminate the hot spots in 1-3 racks. If you have a larger hot spot, simply order two or more HotSpotr™ packages. HotSpotr™ is modular and fully compatible with energy-saving AdaptivCool™ systems.



Introducing HotSpotr™

Intelligent Cooling.

HotSpotr™ is a family of powered airflow improvement products that move chilled data center air to precisely where it is needed the most, and remove heated exhaust air directly back to your computer room air conditioners (CRACs). Top-of-the-line HotSpotr™ models are thermostatically controlled by the included temperature sensors; less expensive models can be controlled by operators or will run continuously.

Integrated Solution.

HotSpotrs connect to most building management systems so the building management system's Emergency Power Off function will turn off your HotSpotrs, too. HotSpotr™ can be used with both 110- and 240-volt power.

No Interruptions.

Installation requires no downtime or movement of racks. Each HotSpotr™ improves cooling in 1-3 racks. Several HotSpotrs can be used at the same time to cool larger areas.

Thermal Professionals.

HotSpotr™ was developed by Degree Controls, Inc., in Milford, NH, a leading world-wide thermal management firm with offices North America, Europe, and Asia.



This illustration shows two underfloor HotSpotrs positioned in front of two server racks that tended to overheat. HotSpotr™ fits most raised flooring systems, and is unobtrusive in service. Discreet blue LEDs tell you the system is on.

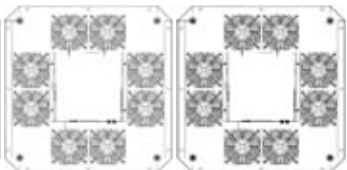
? Does My Data Center Have Adequate Cooling Capacity

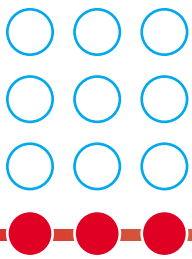
Most data centers are overcooled, often 2-3 times what is needed, so most data centers can use HotSpotr™ to cool hot spots. To make sure,

Use this Chart to Determine Whether You Have Adequate Cooling in Your Data Center:

- 1) What is the total capacity of all the CRACs you have running?
- 2) What is the total electrical load of your IT equipment (from UPS)?
- 3) Divide Line 1 by Line 2
- 4) If Line 3 equals 0.7 or more, you can use HotSpotr™ immediately to move your data center's chilled air to where it will do the most good. Is Line 3 a lower number? Please call us.

- Tons
- kVA
- Tons/kVA





**Side-by-Side
Comparison of the
HotSpotr™ Airmovers:**

| | HotSpotr™ Always-On Underfloor Airmover | HotSpotr™ Three-Speed Underfloor Airmover | HotSpotr™ Thermostatically Controlled Underfloor Airmover | HotSpotr™ Thermostatically Controlled Overhead Airmover |
|---|--|--|--|--|
| Model Number | HT-100 | HT-300 | HT-500 | HT-700 |
| Max CFM | 880 | 1200 | 1200 | 500 |
| Fits | Beneath 2x2 Tile | Beneath 2x2 Tile | Beneath 2x2 Tile | Above raised ceiling |
| Variability | Always on, with Off Switch | Manually selectable Hi-Med-Lo plus Off | Off and from 30% to 100% speed | Off and from 30% to 100% speed |
| Responds to Emergency Power Off by Building Management System | Yes | Yes | Yes | Yes |
| Voltage | 110v | 110v | 110v to 240v | 110v to 240v |



HotSpotr™ Products
From Degree °C AdaptivCool™
18 Meadowbrook Drive
Milford, NH 03055

603-672-8900 x 147
FixMyDataCenterCooling.com



**Use HotSpotr™ wherever heat builds up
in your data center:**

- at the top of racks
- at the ends of rows
- against a wall, or
- in room corners distant from a CRAC.

If you have questions, please call your HotSpotr™ rep or us.

Avoid Risk.

Don't risk your mission-critical functions, your expensive servers, or your priceless data: Cool your hot spots now with HotSpotr™.

Please see your HotSpotr™ rep for details, or visit HotSpotr™ at FixMyDataCenterCooling.com

Degree Controls, Inc.

Copyright © 2007 by Degree Controls, Inc.