

# 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 in a data room.

## 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

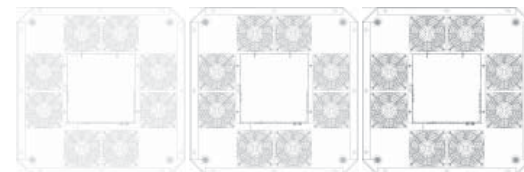
We furnish a complete package. Depending on which model you buy, each HotSpotr package contains a powerful airmover, ducting, sensors, cabling, controls, indicator LEDs and instructions. HotSpotr packages are available immediately from stock.

## 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™ Room Scale Intelligent 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 or CRACs. Top-of-the-line HotSpotr models are thermo-statically 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.

## 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 LEDs tell you the system is functioning properly.*



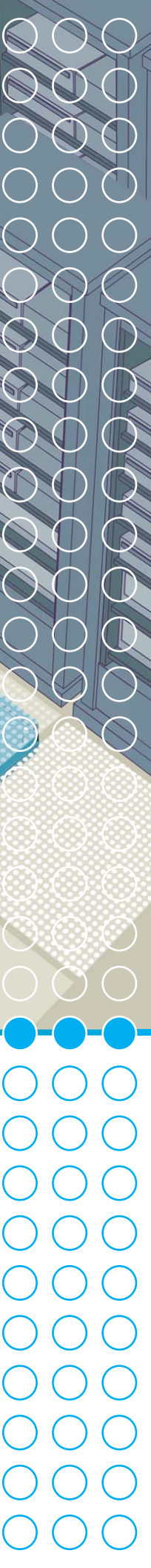
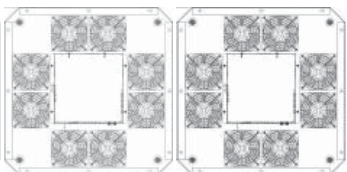
**Does My Data Center Have Adequate Cooling Capacity**

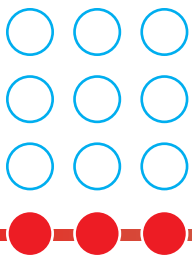
Most data centers are overcooled, often 2-3 times what is needed, so most data centers can use HotSpotr to cool hot spots. To make sure,

### 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





**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	HT-100	HT-300	HT-500	HT-710
Max Airflow (CFM)	880	1200	1200	1200
Tile Size	2'/600mm sq Tile	2'/600mm sq Tile	2'/600mm sq Tile	Above raised ceiling
Fan Speed Control	Always on	Manually selectable Hi-Med-Low	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 to 240v	110v to 240v	110v to 240v

**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.

**Avoid Risk.**

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

For more information, please contact your HotSpotr representative.



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