

Targeted Airflow Management From CRAC to Rack



*Increase Localized Server Density
Maintain Safe Rack Temperatures
Improve Containment Efficiency*

HotSpotr Benefits:

- Increase Localized Server Density
- Maintain Safe Rack Temperatures
- Improve Containment Efficiency
- Compensate for Low Plenum Pressure
- Zero Server Downtime for Installation
- Network Ready

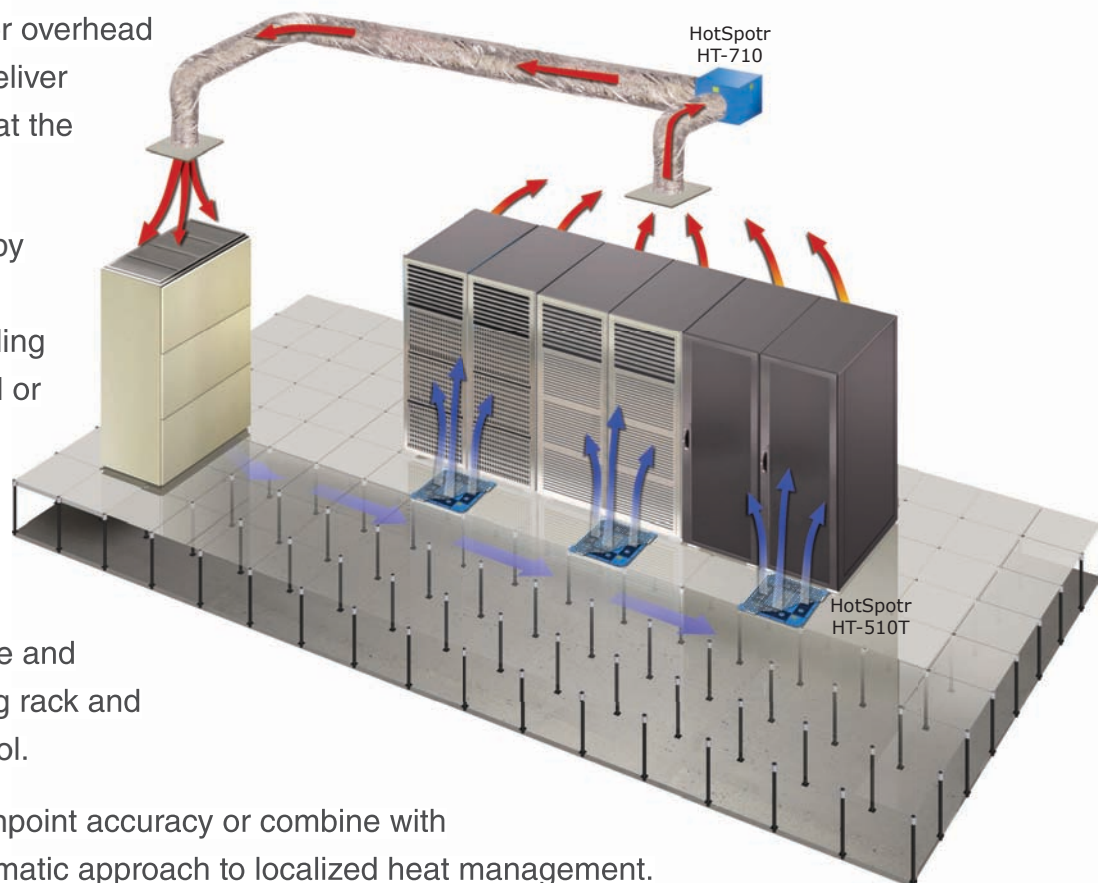
Immediately Eliminate Hot Spots

HotSpotr is a line of data center overhead and underfloor air movers that deliver cooling or remove exhaust heat at the rack level.

HotSpotr eliminates hot spots by instantly reducing server intake temperatures and increases cooling supply for one to three traditional or blade server racks. HotSpotrs can be installed quickly and require no server downtime.

Results are immediate. When powered on, HotSpotrs will sense and deliver enough supply air to bring rack and server temperatures under control.

Use individual floor units for pinpoint accuracy or combine with overhead units, for a more systematic approach to localized heat management.



Maintain Safe Rack Temperatures

Data centers are constantly changing in regards to IT load, heat load, and cooling needs. The HotSpotr line of products is engineered to dynamically monitor and adjust to these changing conditions.

Through the use of supplied sensors and adjustable temperature settings, HT-510s will control the amount of supply air a rack receives to keep rack temperatures right where you want them. The HT-710, typically used for returning hot exhaust air back to the CRAC is also adjustable in its setting; so you can minimize cold/hot air mixing to fit your data center's layout.

Whether you are using the HT-710 to return hot air back to the CRACs or the HT-510T for cooling supply, HotSpotr creates data center Thermal Peace of Mind™.

Industry Experts Agree That Airflow Control Increases Cooling Efficiency

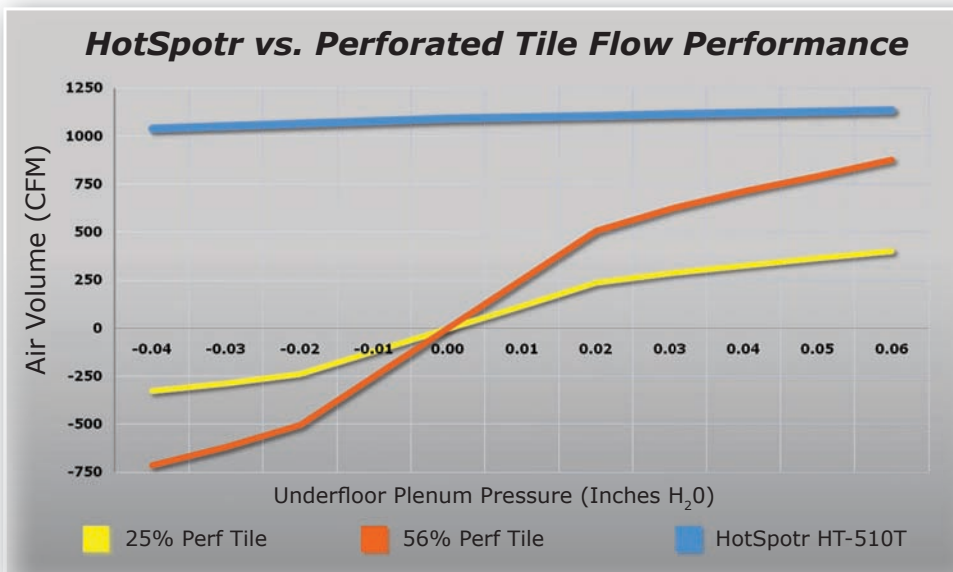


Increase Server Density

High density racks require more cooling supply than conventional racks. Luckily data centers are equipped with enough cooling capacity but lack proper airflow distribution. The additional cold air provided by HotSpotr air movers supply enough cooling for over 10 kW of IT load and maintain that capacity even under low or negative underfloor pressure scenarios.

Improve Containment Efficiency

Containment is an excellent approach to eliminate mixing and improving cooling efficiency. However, it requires higher plenum pressure to ensure supply air is entering the contained area. By using HotSpotr air movers to inject air into the contained area, you can reduce CRAC pressure and conserve energy.



The flow chart above shows the consistent performance of the HotSpotr HT-510T in all plenum pressure scenarios. Even in negative pressure situations, the HT-510T provides over 1000 CFM of supply air to servers.

HT-110T

Always On
Underfloor Air Mover



No Temperature Sensors

HT-510T

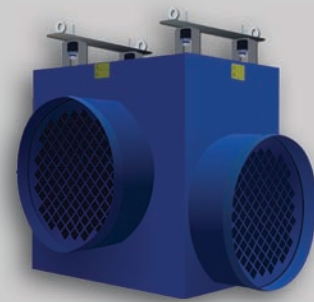
Thermostatically Controlled
Underfloor Air Mover



Rack Mounted Temperature Sensors

HT-710

Thermostatically Controlled
Overhead Air Mover



Internal Temperature Sensors

Non-Disruptive Installation, Zero Foot Print

When installed, HotSpotr is seamless and practically invisible. There is *no server downtime required for installation*. Floor units become part of the floor and overhead units are hidden above the drop ceiling space.

Installation is quick and easy and requires *no movement of existing racks*. In fact HotSpotr underfloor units require *no special tools*. Simply plug in and power on.

Underfloor units are *designed to replace a standard size floor tile* in raised floor data centers (with a little as 6" depth) so there is no clutter of portable fans or spot coolers.

Overhead units fit into the space above the drop ceiling, effectively disappearing with only the diffuser visible. The overhead return drives hot server air back to the computer room air conditioners (CRACs), removing heat and improving CRAC performance.



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