

HotSpotr FAQ's

1) What is the HotSpotr HT-500?

- a. The HotSpotr HT-500 is an under floor active air mover mounted beneath a perforated tile for a raised floor data center. Its purpose is to boost the amount of cooling air delivered to IT racks. Temperature sensors mounted at the top-intake-side of the racks monitor and control air delivery.

2) What is the difference between the HT-500 and the HT-500-T?

- a. The HT-500 comes with a mounting kit that attaches to the stanchions under the raised floor, and should be used with a customer's existing perforated tiles. We recommend perforated tiles of at least 50% open area to gain the full benefit of the HT-500.
- b. The HT-500-T comes attached to the underside of a 56% open Tate® GrateAire® Tile, and does not require a separate mounting kit.

3) How much power does the HT-500/HT-500-T consume?

- a. When the fans are at full speed, the HT-500 consumes 2 Amps @120V. However, the fans are typically running at between 30% and 50% speed and consume less than 1 Amp @120V. Put into the context of the server racks they cool, the HT-500 consumes approximately 2.5% of the power being consumed by the rack.

4) How long is the power cord? What type of plug does it have?

- a. All North America market HotSpotrs come with a 6 foot power cord with a Ground Fault Circuit Interruption module at the end of the cord. There is a standard U.S. 120V 5-15 3-Pin grounded plug on the module.

5) How many kilowatts per rack can the HT-500-T cool?

- a. The HT-500 can safely cool between 10 and 12 kilowatts per rack (assuming that the customer has enough cooling tonnage available in the data center to support the IT load).

6) How shallow can the raised floor be? What is the minimum floor depth that is required?

- a. The HT-500-T can be installed in a 6 inch (or deeper) raised floor as measured from the slab to the top of the raised floor.

- 7) Does the HotSpotr “steal” air from the adjacent perforated tiles?**
- a. No. We have conducted tests at various customer sites and we have never encountered a situation where we have starved adjacent racks of airflow. This is due to the thermostatically controlled VFD fans in the HT-500. It will only draw enough air to maintain 77°F at the rack top intake and not waste cooling. Of course there needs to be enough total CRAC tonnage available to support the total IT load in the room.
- 8) How much air can the HT-500/HT-500-T deliver?**
- a. At full speed, through a 56% Tate® GrateAire® tile, the HT-500 can supply 1200 CFM.
- 9) What type of floors will the HT-500 and HT-500-T fit into?**
- a. The HT-500 can fit into any raised floor that uses 24” (or 600 mm. ask for details) tiles.
 - b. Because it is supplied with a Tate® tile, the HT-500-T will fit into all Tate® compatible flooring systems. However, we also provide an adaptor kit that should allow the HT-500-T to also fit most non-Tate® flooring systems. The adaptor kit consists of spacer blocks attached to the supplied tile that insures proper fit with the surrounding tiles.
- 10) Can the sensors in the HT-500/HT-500-T be networked?**
- a. Yes. AdaptivCool offers a more comprehensive solution for total Data Center cooling and energy savings – “Room Scale Intelligent Cooling” or RSIC for short. During the installation of the RSIC solution, any HT-500 or HT-500-T HotSpotrs that the customer has already purchased can be incorporated into the RSIC solution.
- 11) What is the shipping size and weight of an HT-500 or HT-500-T**
- a. The HT-500 box size is 24.5 inches x 25 inches x 7 inches, and its weight is 25 pounds.
 - b. The HT-500-T box size is 24.5 inches x 25 inches x 7 inches and its weight is 38 pounds
- 12) You claim to solve hotspots in 3 minutes. How is this possible?**
- a. When installed and powered on, the HT-500 will sense and deliver enough cool air to bring rack and server temperatures under control in under 3 minutes.
 - b. Physical installation of the HT-500-T is 30 minutes or less with no special tools required.