



HotSpotr Case Study

Before & After Server Intake Temperature
Results Using HotSpotr Products



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Electronic Environments Corporation
410 Forest Street
Marlborough, MA 01752
(800) 342-5332
www.EECnet.com

This case study provides before & after temperature data at two customer sites using AdaptivCOOL HotSpotr™ products to reduce temperatures at hot locations in their data centers. Each HotSpotr™ is easily installed in 30 minutes.

Customer #1:

Customer #1 installed 4 HotSpotr's in front of each rack listed below. All temperature data is taken at rack top intakes.

Rack #	Before	After	Delta
Rack 3	80°F	66°F	-14°F
Rack 4	81°F	72°F	-9°F
Rack 5	79°F	70°F	-9°F
Rack 6	84°F	74°F	-10°F

The installation of HotSpotr's reduced rack temperatures up to 14°F for this customer. Variations of temperature improvements are often caused by other factors in the room such as location of CRACs, rack configuration, and other airflow dynamics. The improvements here allowed this customer to safely increase loading of their racks.

Customer #2:

Customer #2 installed 1 HotSpotr tile straddling racks 48 & 49 in a row of racks.

Rack #	Before	After	Delta
Rack 40	76°F	72°F	-4°F
Rack 43	76°F	70°F	-6°F
Rack 44	72°F	68°F	-4°F
Rack 45	82°F	80°F	-2°F
Rack 46	74°F	74°F	-0°F
Rack 47	86°F	84°F	-2°F
Rack 48	86°F	66°F	-20°F
Rack 49	86°F	68°F	-18°F
Rack 50	78°F	76°F	-2°F

Racks 48 & 49 saw an 18°F to 20°F reduction in rack top intake temperature. Interestingly, adjacent racks without HotSpotr's™ are not adversely affected. This means the IT or Facilities manager does not need to be concerned about HotSpotr's™ effect on other areas of the room assuming there is adequate cooling capacity.