

Application

Quickly & Effectively Convert Small IT Spaces Using Containment Cooling®

APPLICATION | EC7004B

Published August 2010



One system automates small-space cooling, providing an entire simplified cooling circuit for all IT equipment types.



www.nerdata.com 888.637.3282

Monitor and Adjust Small Space Cooling from a Remote Location

Effective room airflow control for computer, network switches, and phone systems in small spaces. Maintain proper temperature within the network or small computer room. Superior intelligence and visibility to critical thermal conditions via a Web interface over Ethernet allows remote alarm notification and control to adjust cooling levels. Allow higher IT intake temperatures: ASHRAE increased the acceptable intake temperature to 80.6 °F (27 °C) continuous and 89.6 °F (32 °C) for short durations during a 24-hour period.

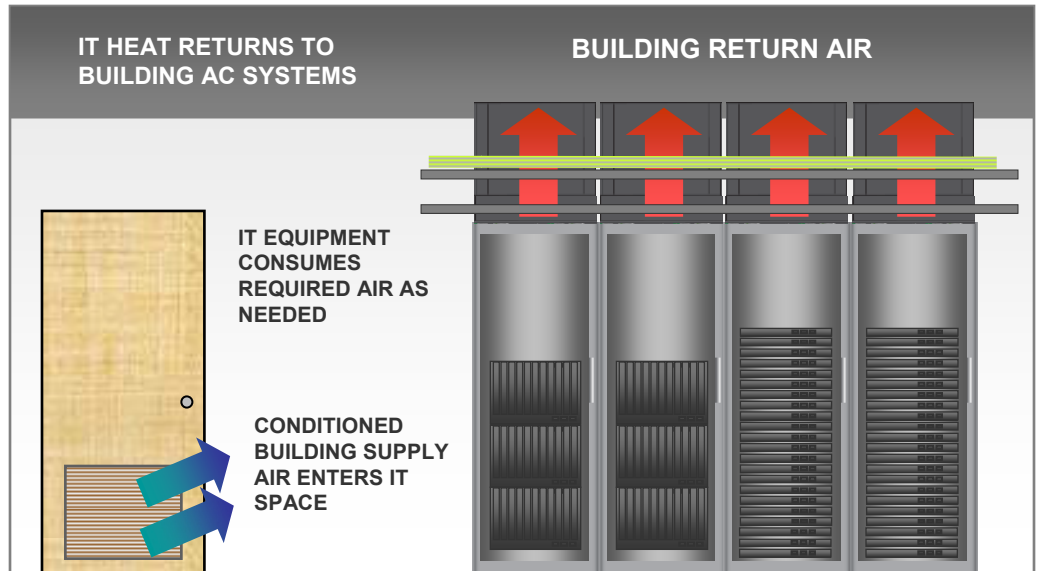
Reliably Convert Small IT Spaces

Cooling Lower-Density Closets & Small Computer Room Spaces

Maintain proper temperature within the network or small computer room. Superior intelligence and visibility to critical thermal conditions via the Web interface software over Ethernet allows remote alarm notification and control to adjust cooling levels. Continually deliver predictable temperatures to your IT equipment and achieve the highest degree of cooling efficiency with Opengate Data Systems.

Use Building Supply for 0-3 kW IT Load per Rack Enclosure

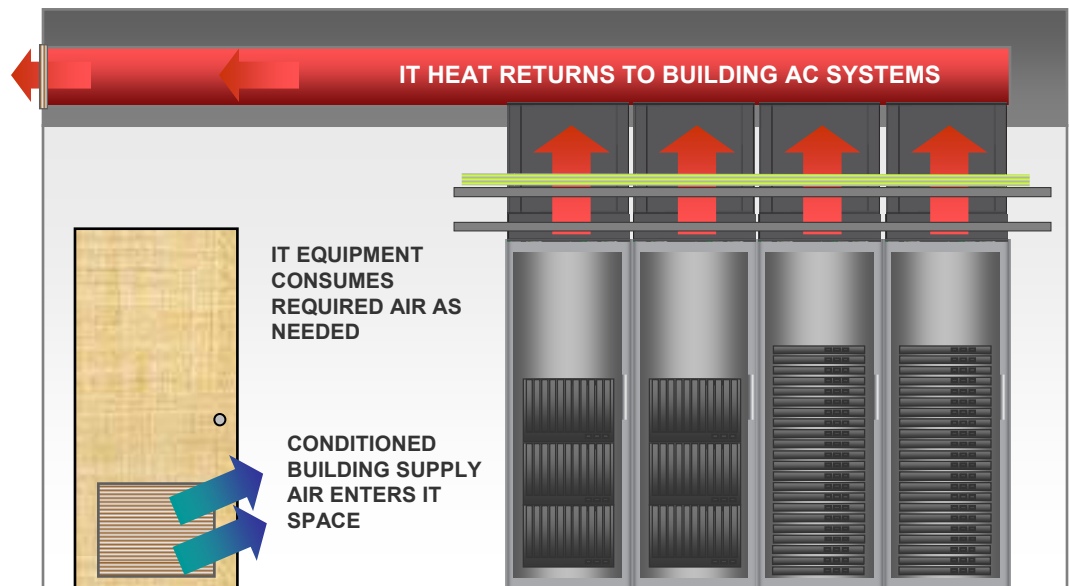
Heated exhaust air from IT racks is directed to a ceiling plenum that is the building air return. Air enters the small space through a low vent in a wall or door.



- Check local fire code for acceptance -

Use Building Supply for 0-3 kW IT Load per Rack Enclosure with Dedicated Exhaust to Corridor

Heated exhaust air from IT racks is directed to a dedicated duct and exhausted to the corridor. Air enters through a low vent in a wall or door.

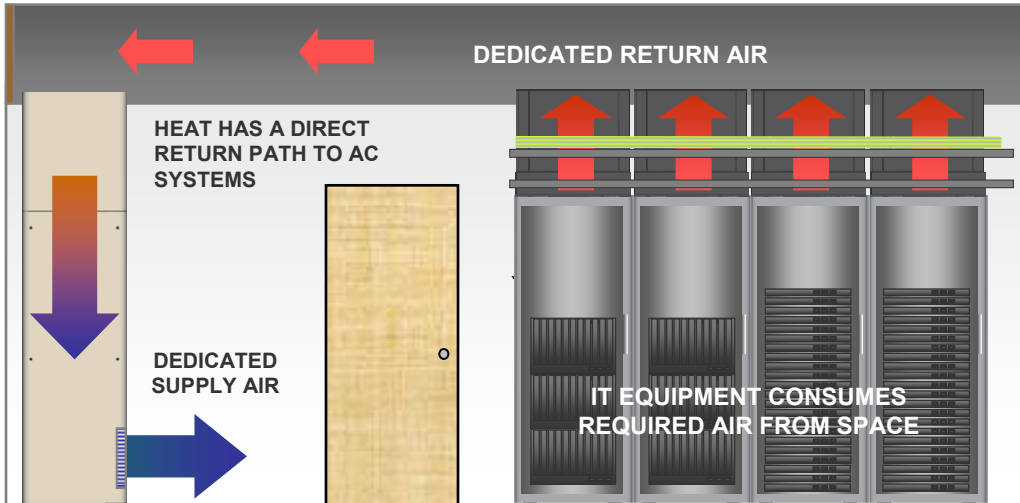


- Check local fire code for acceptance -



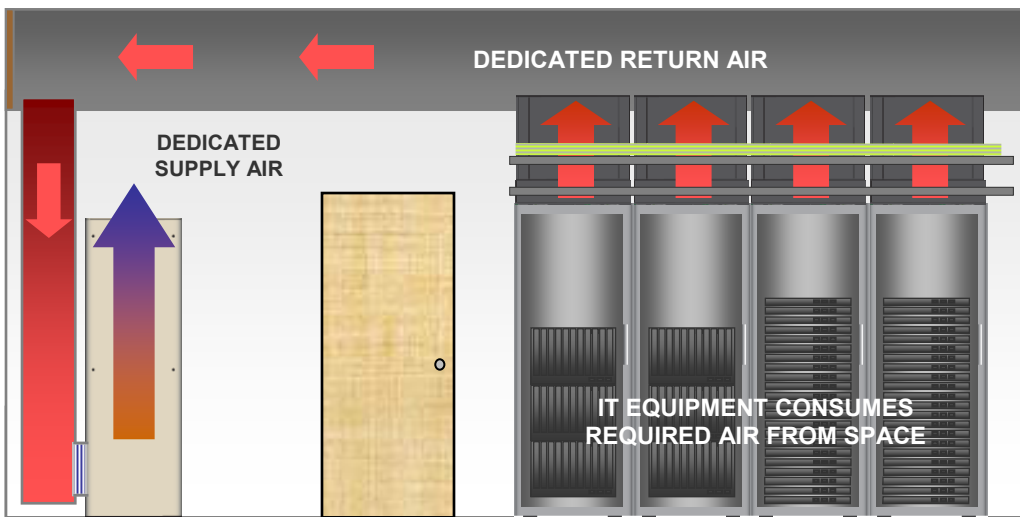
Cooling Greater Density in Small Computer Rooms

Mid-High density IT spaces require the addition of precision AC systems. Use the following examples that best fit your application to maintain predictable temperatures to your IT equipment and achieve the highest degree of cooling efficiency. **Trust in Opengate System's superior visibility to critical thermal conditions** via the Web interface software over Ethernet.



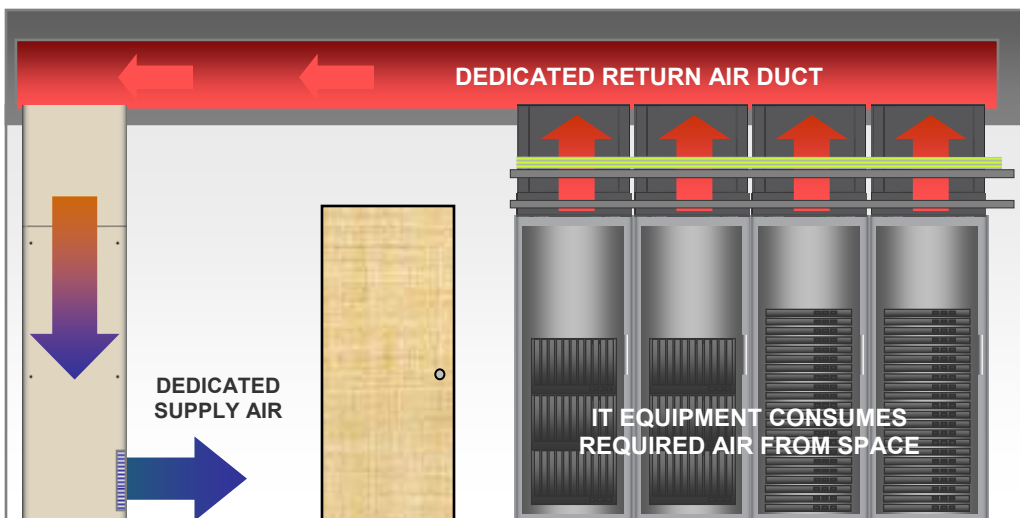
Dedicate Ceiling Return for up to 30 kW IT Load per Rack Enclosure

Heated exhaust air from IT racks is directed to a dedicated ceiling plenum for a direct path back to the down-flow precision AC units.



Dedicate Ceiling Return for up to 30 kW IT Load per Rack Enclosure

Heated exhaust air from IT racks is directed to a dedicated ceiling plenum for a direct path back to the up-flow precision AC units.



Dedicate Return Air Duct in Ceiling for up to 30 kW IT Load per Rack Enclosure

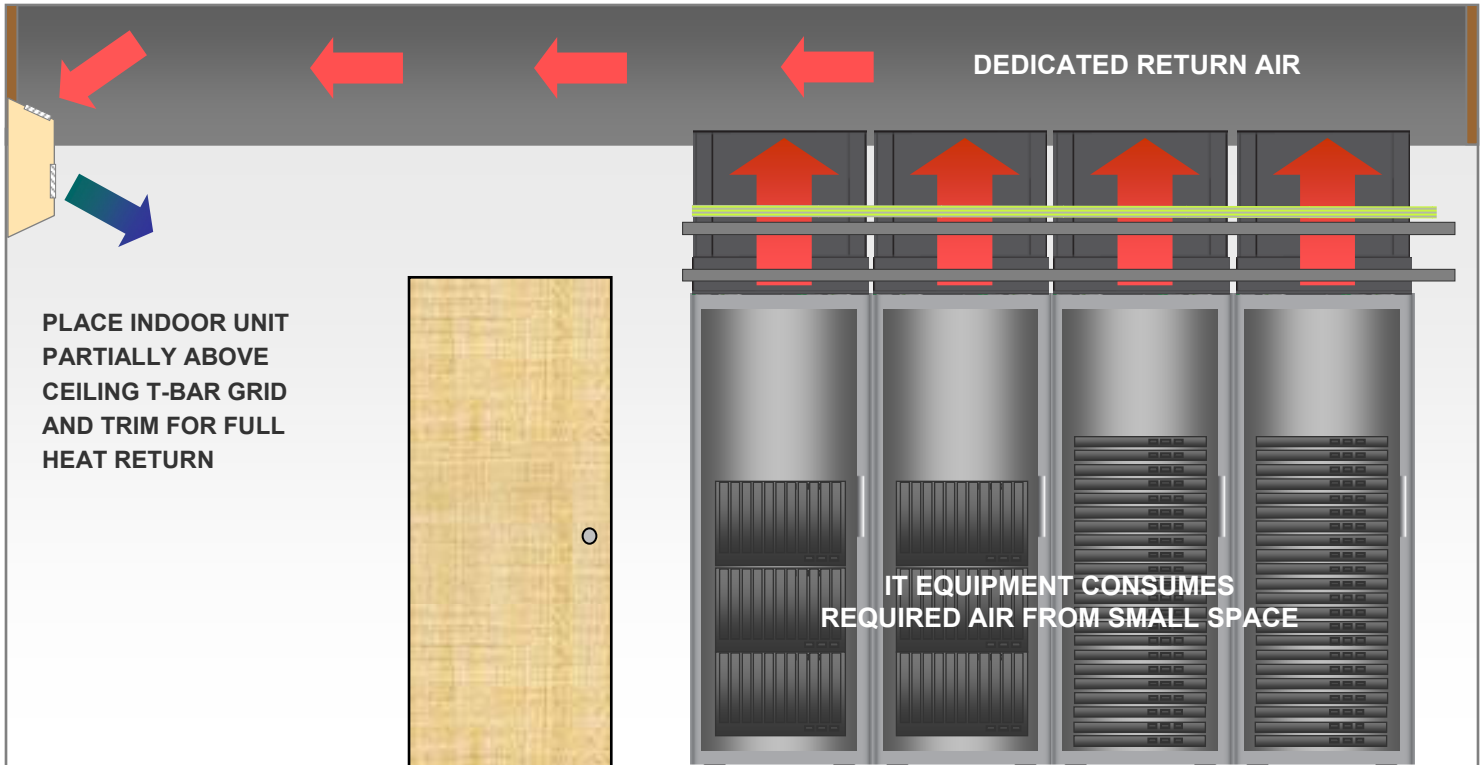
Heated exhaust air from IT racks is directed to a dedicated return duct for a direct path back to precision AC units.

Reliably Convert Small IT Spaces

Cooling Greater Density in Small Computer Rooms Using Mini-Split Systems

Applying wall mounted single and multi-split systems offer maximum simplicity and flexibility for mid-range IT loads in small spaces. Use the following examples that best fit your application to maintain predictable temperatures to your IT equipment and achieve the highest degree of cooling efficiency.

Dedicated Cooling From One or More Mini-split Systems



Intelligent Small Space & Data Center Solutions

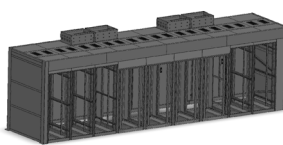
SwitchAir™
Network Switch
Cooling



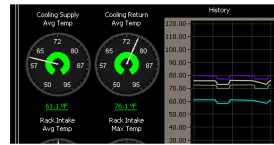
SiteView™
Data Center
Management



IT-Row™ Cooling
Automated Row
Heat Containment



Unity Cooling®
Automated Cooling
Control



SiteX EM™
Environment
Monitoring



SiteX EP™
Rack Power
Distribution



Intelligent, Distributed Power & Cooling™

