

INSTALLATION INSTRUCTIONS CM361C

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List of Components:

- (1) Set of two Keys
- (1) Left Mounting Bracket
- (1) Right Mounting Bracket
- (1) Fan Module
- (6) Grommets
- (2) Tak-Ty Rolls (Hook and Loop)
- (4) Self-Tapping #10-32 screws
- (1) Ceiling Tile Template
- (1) Electrical Junction Box
- (1) Integrated Horizontal Slack Manager
- (1) Adjustable Air Dam
- (2) Filters
- (4) Entry/Exit Knockout Plates

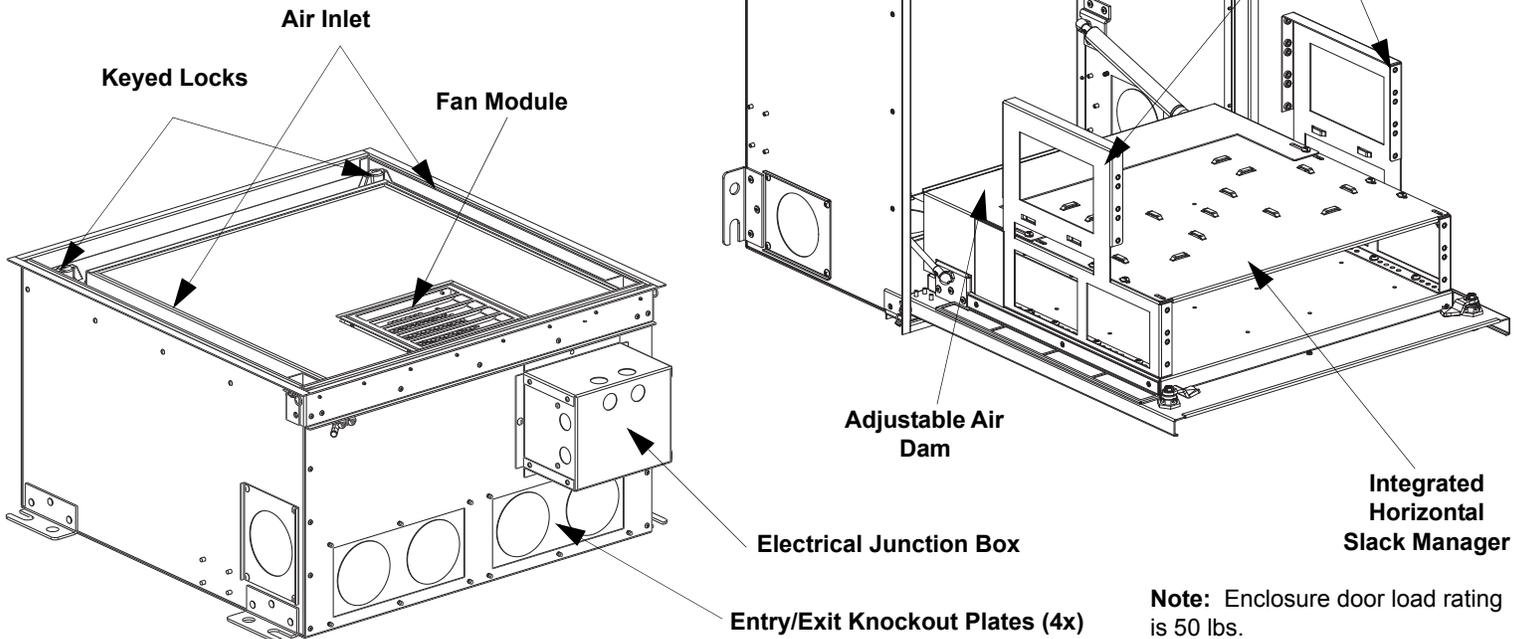
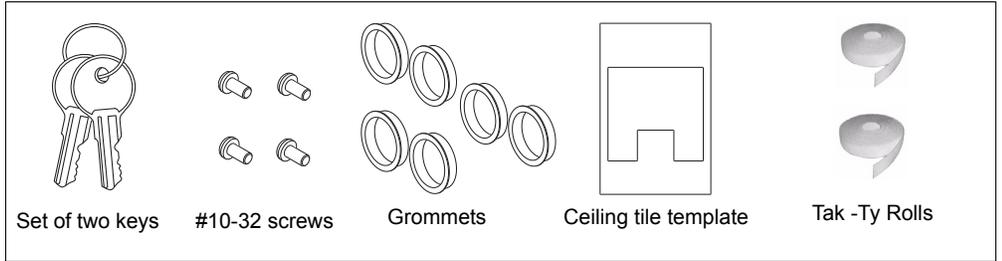
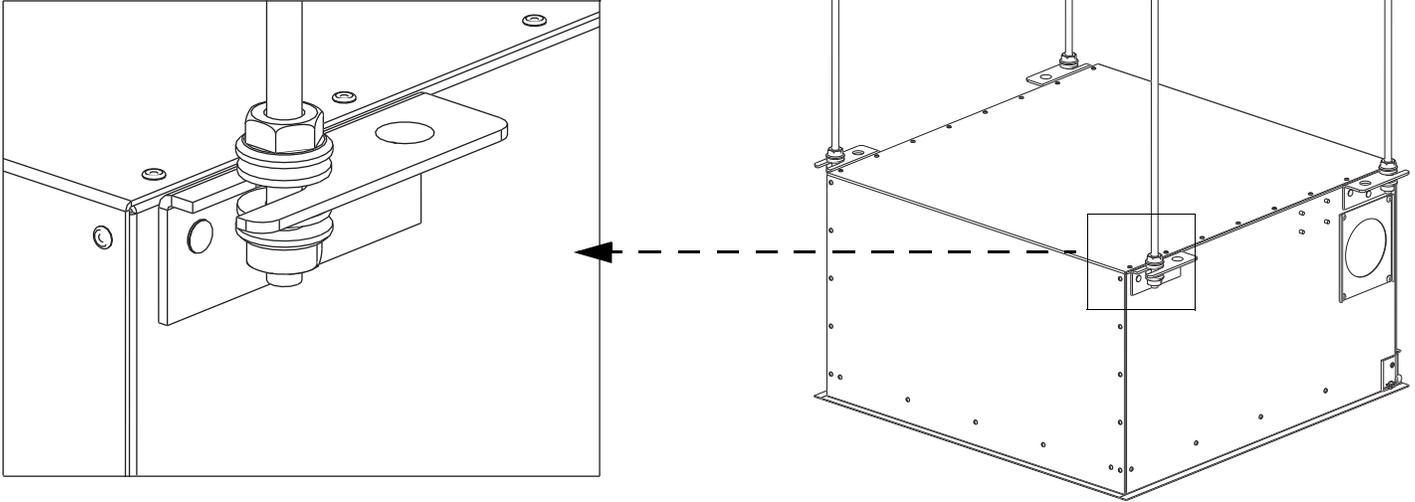


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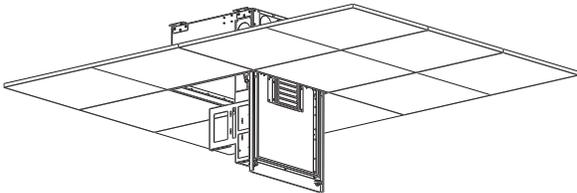
Install in Ceiling

Install (4) threaded rods to the building structure. The threaded rod must be attached on all four corners of the enclosure with a nut and washer above and below the support bracket. Level the enclosure so the weight is not supported by the ceiling grid system.



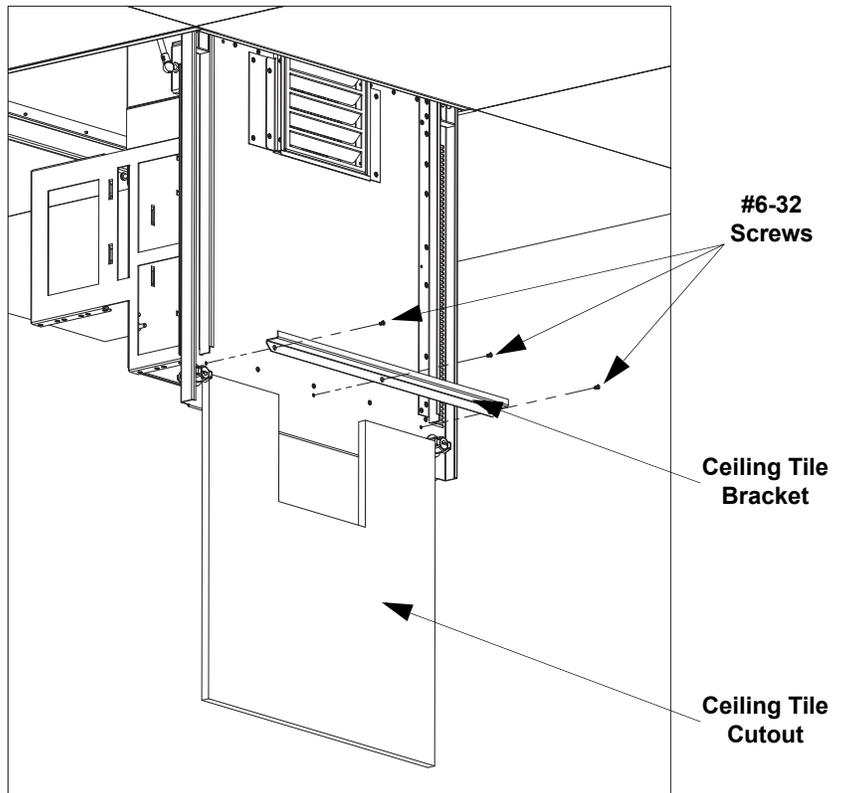
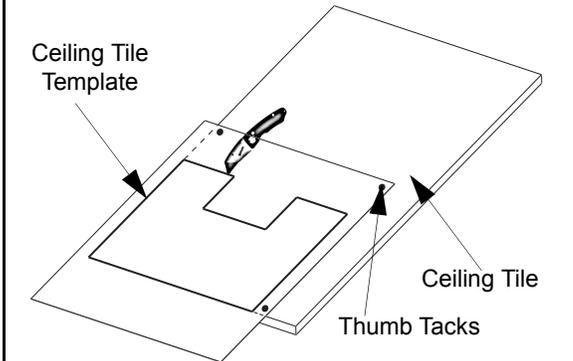
Insert Ceiling Tile Cutout into Housing

While the enclosure is installed in the ceiling and open, remove the (3) #6-32 screws and ceiling tile bracket as shown below. Once removed, slide the ceiling tile cutout into place fitting around the fan module. After proper orientation is achieved, replace the ceiling tile bracket and the (3) #6-32 screws back into enclosure.



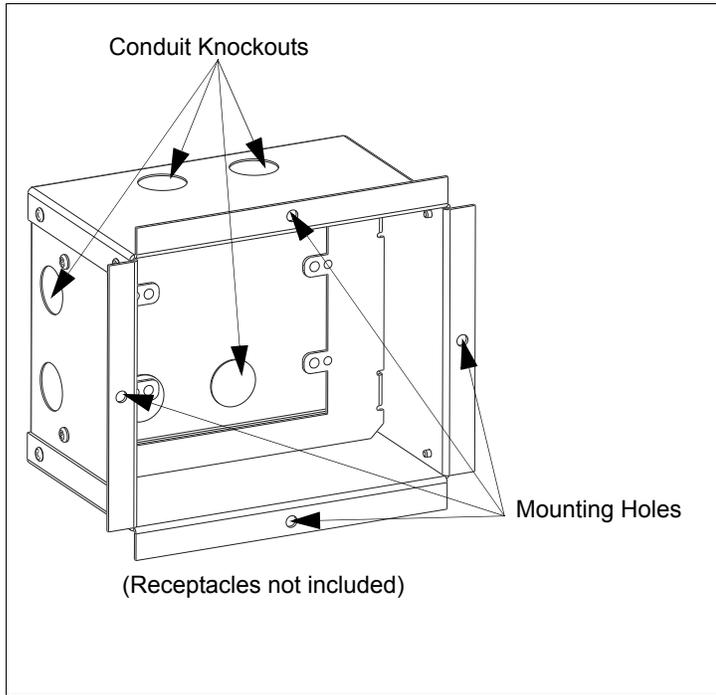
Ceiling Tile Cutout

Place the included ceiling tile cutout template over the removed ceiling tile. Secure the template with tape or thumb tacks. Trace the outline with a utility knife to extract the necessary shape to insert into the enclosure.



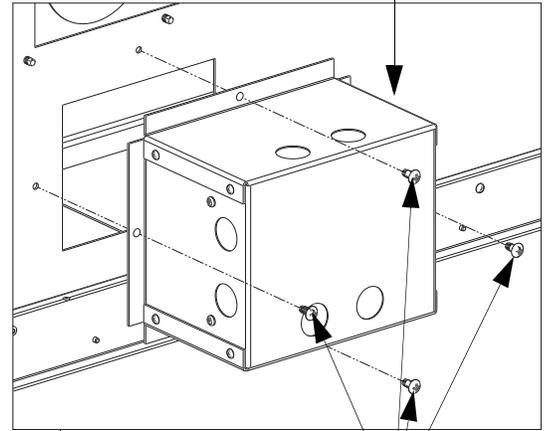
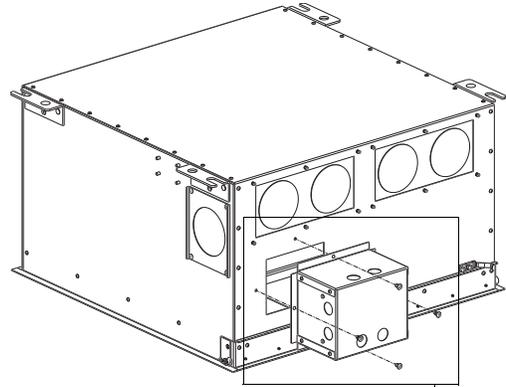
Electrical Installation

Included with the product is a standard electrical junction box. Mounting and installing the electrical components and receptacles should be completed by a experienced professional to the latest local building codes and regulations.

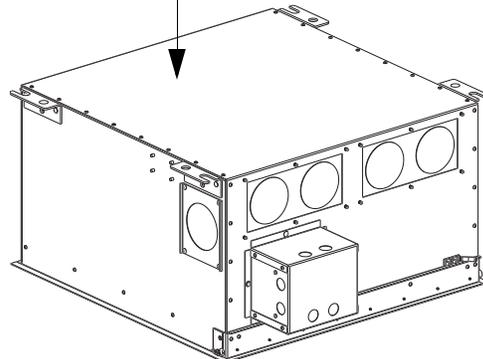


Mounting the Electrical Junction Box

Mount the electrical box to the side of the enclosure. Use (4) # 10-32 thread cutting screws to attach the box to the exterior.

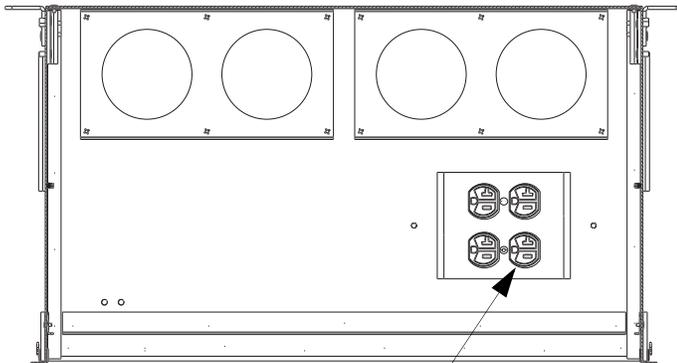


#10-32 Thread Cutting Screws



NOTE: Install power per local building codes and regulations.

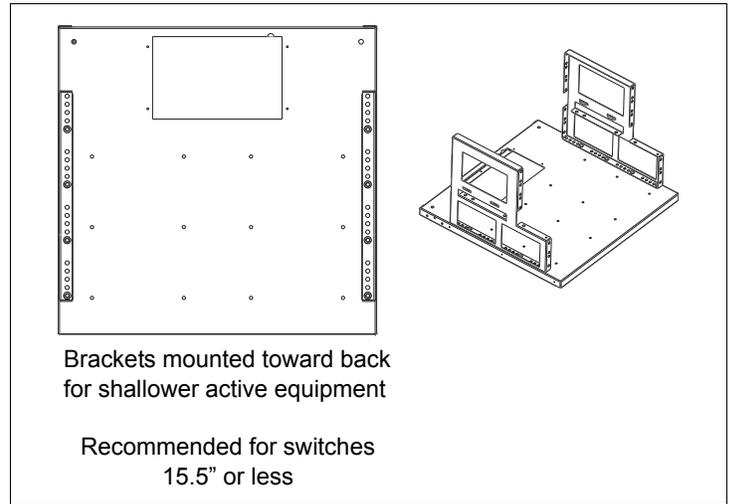
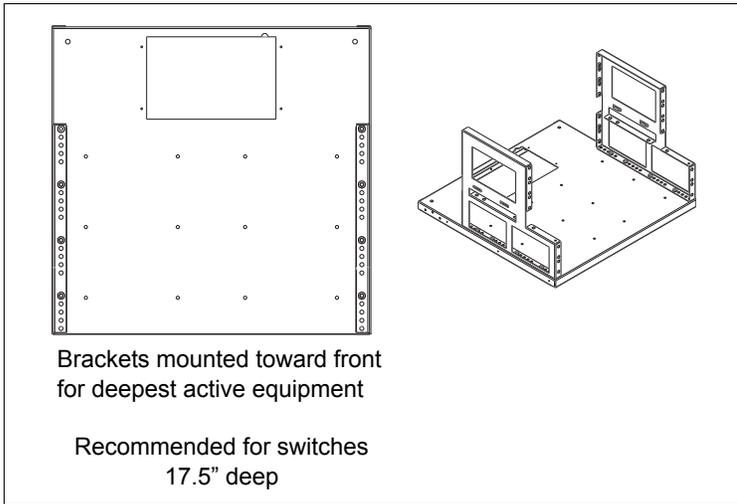
Cross-sectional view from inside enclosure



Above the junction box is shown with already installed receptacles.

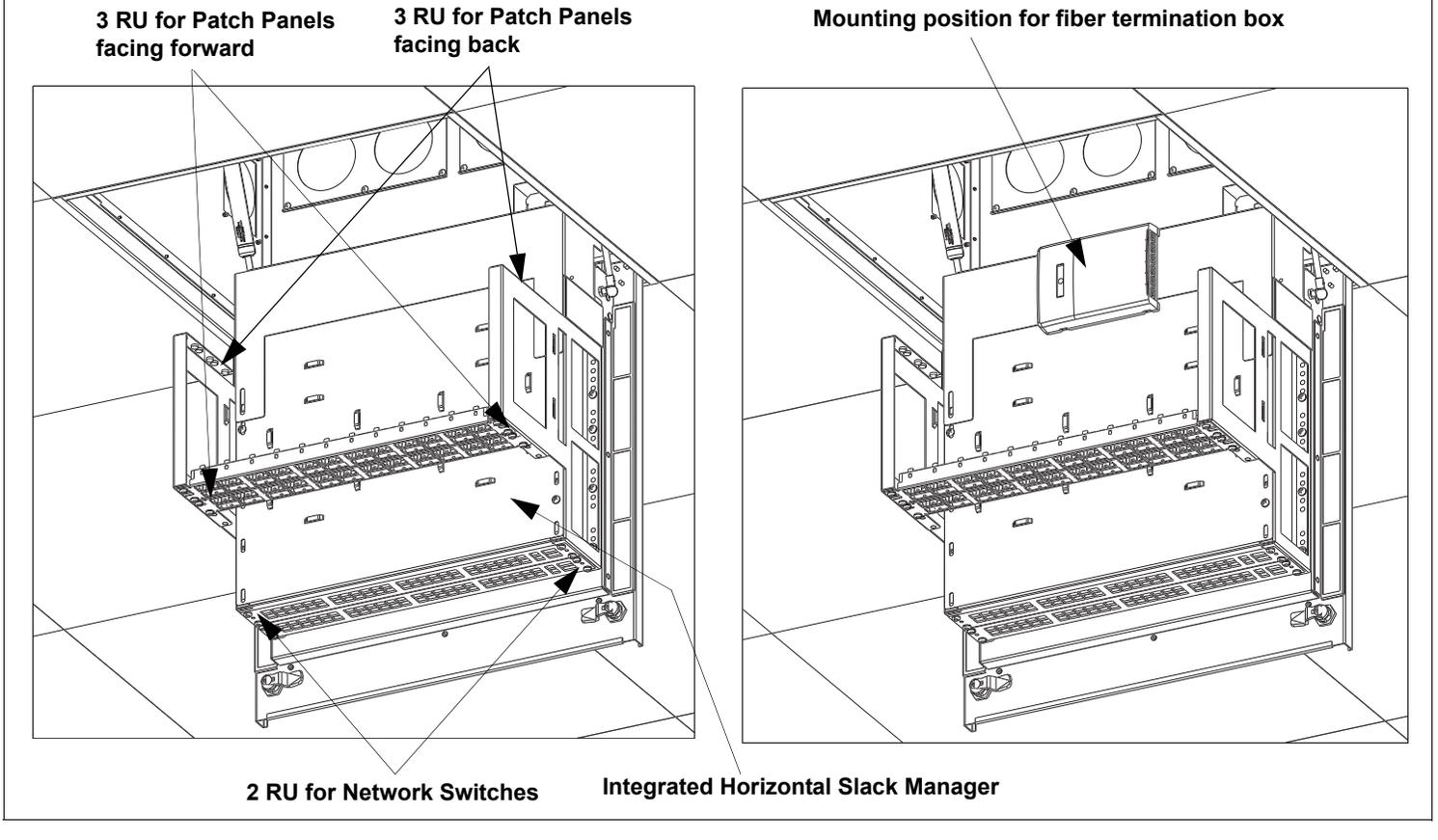
Active/Passive Network Equipment Installation

Adjust the brackets forward or backward to accommodate the desired depth for the intended active equipment. Shown below are two examples of where to attach the mounting brackets, however the brackets can be adjusted in 1/2" increments to better fit desired network active equipment.

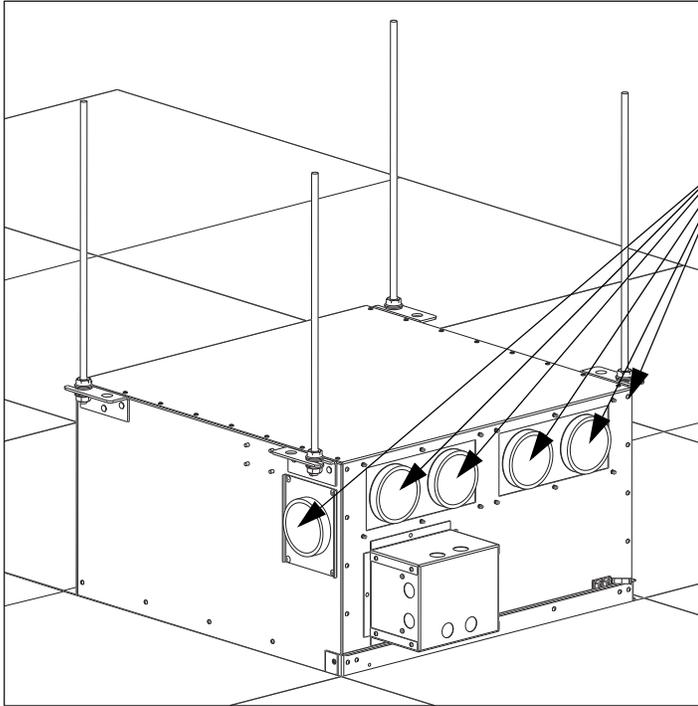


Mount the desired equipment to the recommended mounting locations. The upper level of the brackets are recommended for use with patch panel applications while the lower level is designed to hold your network switches.

Note: Maintain a minimum gap of approximately 1/2" (12mm) between the door and the bottom of the switch for air flow.



Cable Routing and Slack Management



Note: Install all cabling in accordance with NEC article 300.22 and article 800.

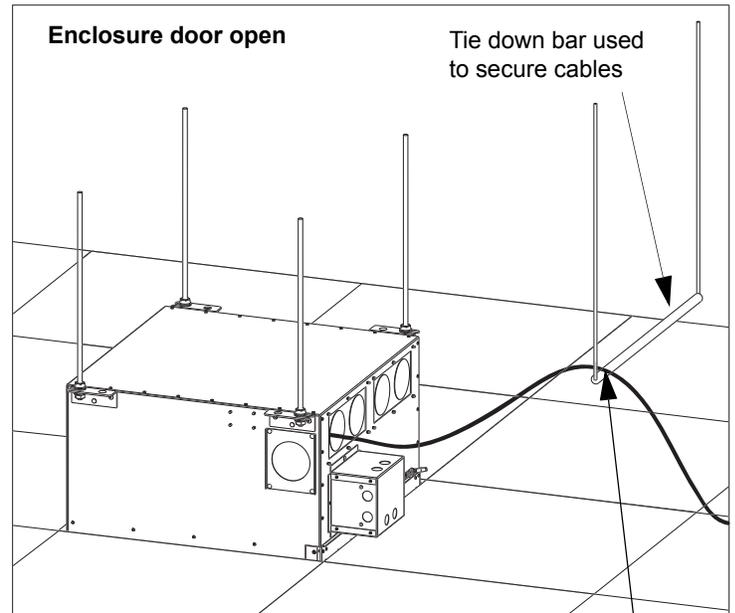
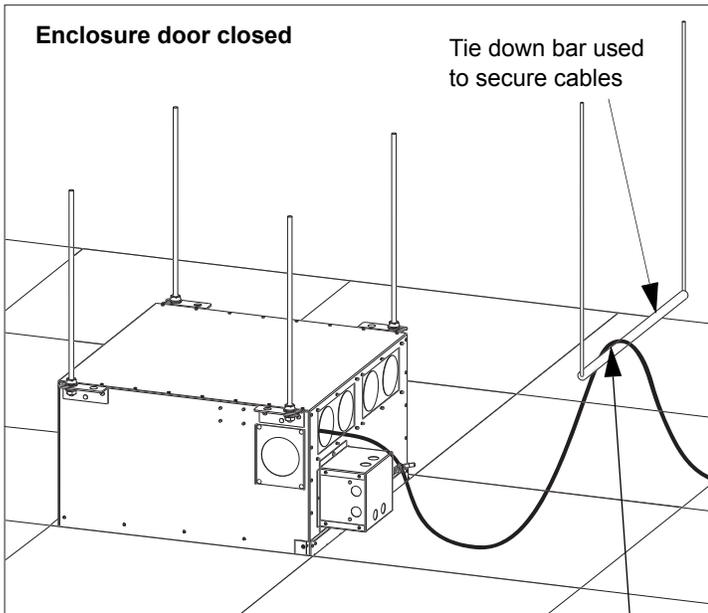
Entry/Exit knockouts

Determine the direction of the incoming and outgoing cables in order to select which entry/exit knockouts to remove. Once removed install the grommets from the inside of the enclosure. (Each grommet is designed to hold 48 Category 6a cables.)

Cable Routing

Utilizing the four back grommets requires a proper slack loop to allow the door to open and close properly. The diagrams below illustrate how to route the cables and where to secure the cables using a tie-down bar. The tie off point should be approximately 24" away from cable entering point of enclosure and 6" above the top.

NOTE: Allow a minimum of 14" of cable slack to allow the door to open and close properly.

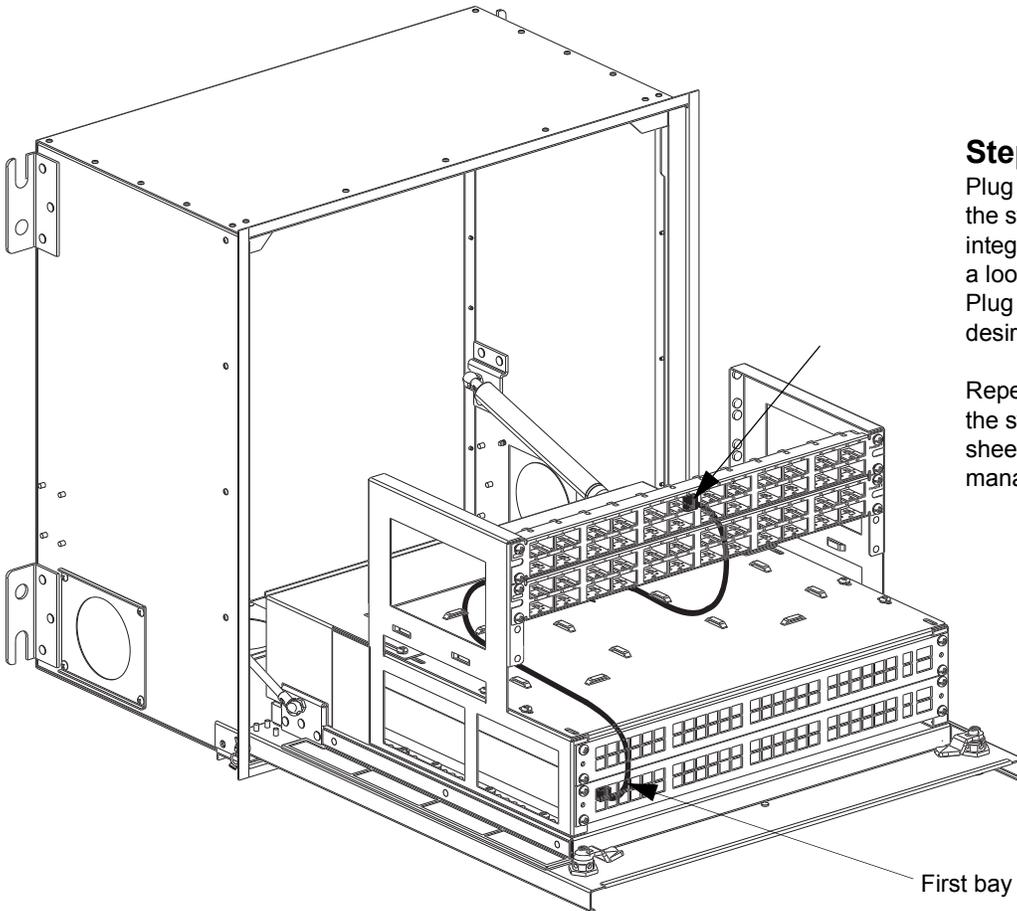


Cable Routing and Slack Management



Shown to the right is the recommended patch cord routing from (2) 48- port switches to (2) 48-port patch panels.

The image below demonstrates how cables are routed from switch to patch panels.



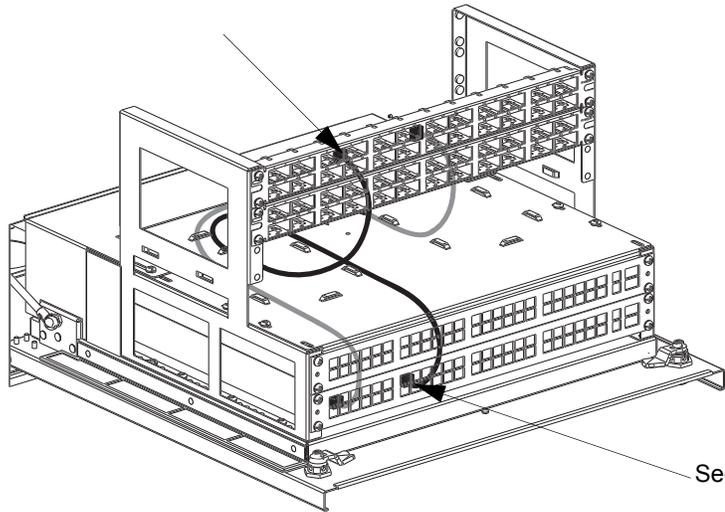
Step 1

Plug in a 3' (1m) patch cord into a port on the switch. Route patch cord up and into the integrated horizontal slack manager. Create a loop in the patch cord and bring forward. Plug other end of the patch cord into the desired jack in the patch panel.

Repeat the process for each bay of ports on the switch. Use Tak Ties to secure cables to sheer forms located on the horizontal slack manager.

First bay of ports (12) on the switch

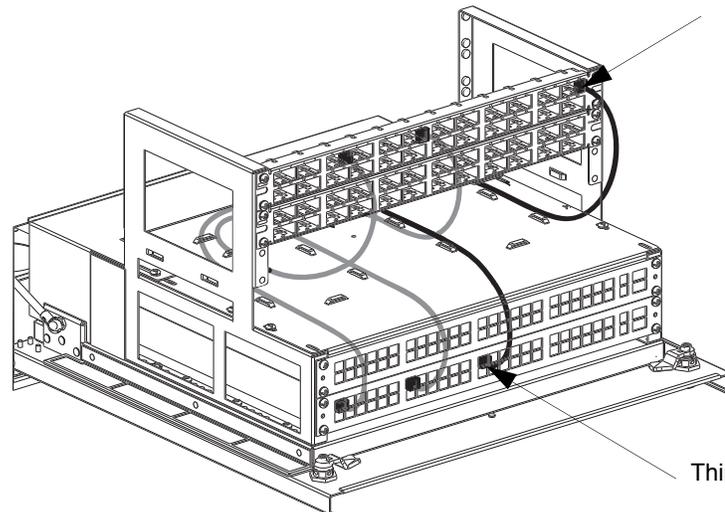
Patch Cord Management



Step 2

Plug in a 3' (1m) patch cord into a port on the switch. Route patch cord up and into the integrated horizontal slack manager. Create a loop in the patch cord (**opposite direction of step 1**) and bring forward. Plug other end of the patch cord into the desired jack in the patch panel.

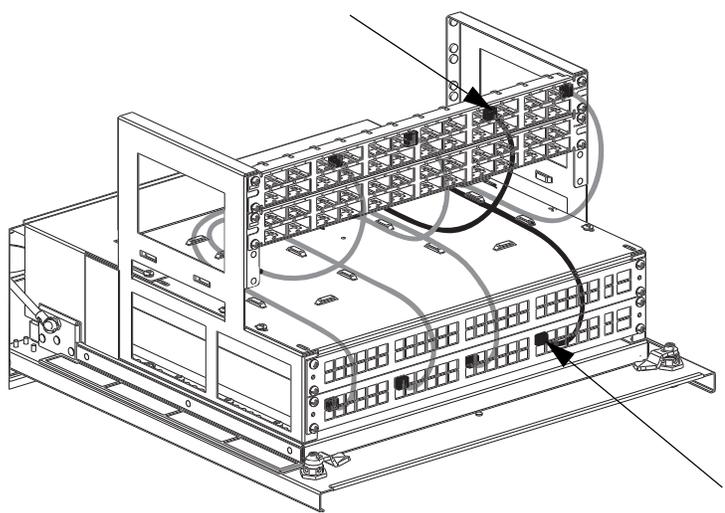
Repeat the process for each bay of ports on the switch. Use Tak Ties to secure cables to sheer forms located on the horizontal slack manager.



Step 3

Plug in a 3' (1m) patch cord into a port on the switch. Route patch cord up and into the integrated horizontal slack manager. Create a loop in the patch cord and bring forward. Plug other end of the patch cord into the desired jack in the patch panel.

Repeat the process for each bay of ports on the switch. Use Tak Ties to secure cables to sheer forms located on the horizontal slack manager.



Step 4

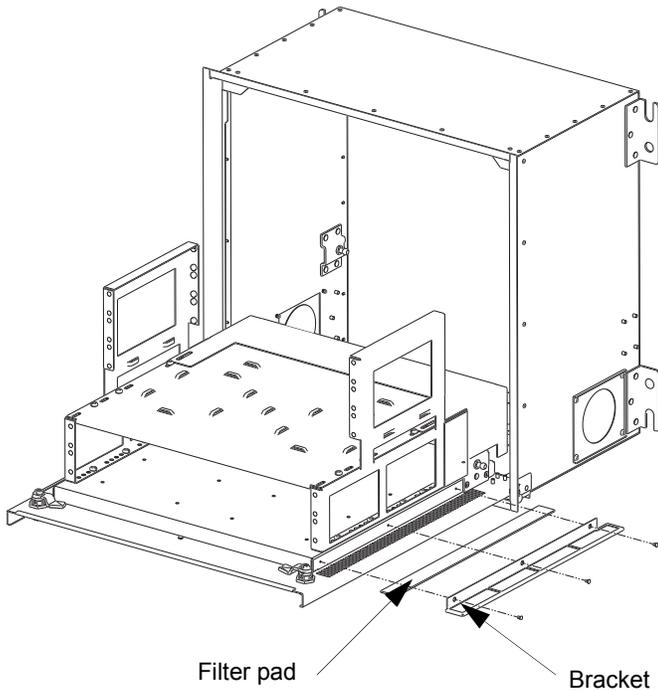
Plug in a 3' (1m) patch cord into a port on the switch. Route patch cord up and into the integrated horizontal slack manager. Create a loop in the patch cord (**opposite direction of step 3**) and bring forward. Plug other end of the patch cord into the desired jack in the patch panel.

Repeat the process for each bay of ports on the switch. Use Tak Ties to secure cables to sheer forms located on the horizontal slack manager.

Maintenance

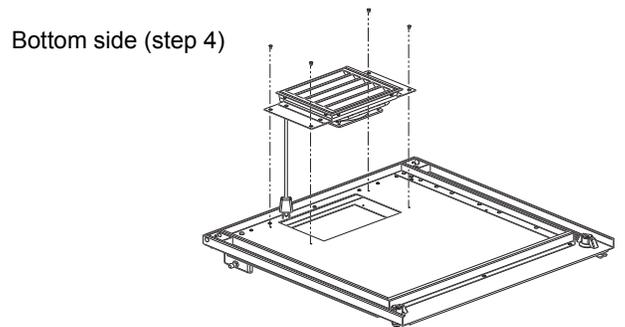
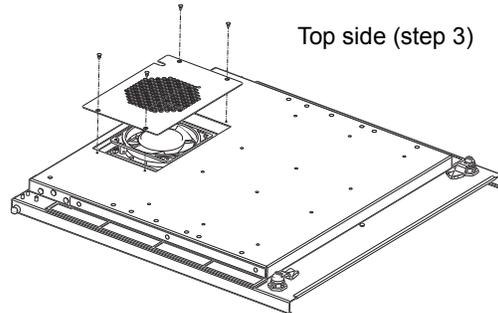
Annually Replace Filter

1. Remove (3) #6-32 thread cutting screws as shown.
2. Remove old filter and replace with new one.
3. Install filter bracket with (3) #6-32 thread cutting screws.
4. Repeat process on opposite side.



Annually Clean Circulation Fan

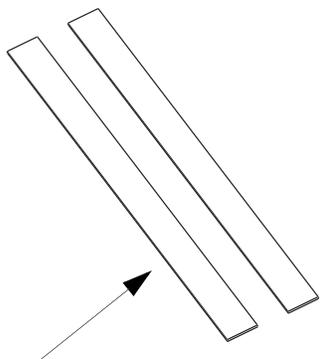
1. Unplug fan from power source.
2. Remove ceiling tile (see page 2).
3. Remove (4) #6-32 thread cutting screws as shown
4. Remove the remaining (4) #6-32s thread cutting screws on opposite side.



Accessories

Filter replacement kit

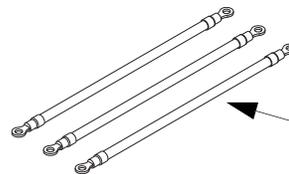
PZICFRK



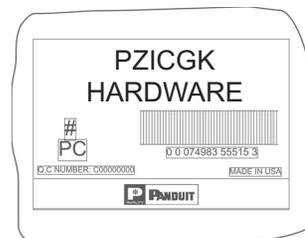
5 pairs of replacement filter pads

Grounding and Bonding Kit

PZICGK



Grounding cables



For instructions in Local Languages
and Technical Support:

www.panduit.com/resources/install_maintain.asp



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