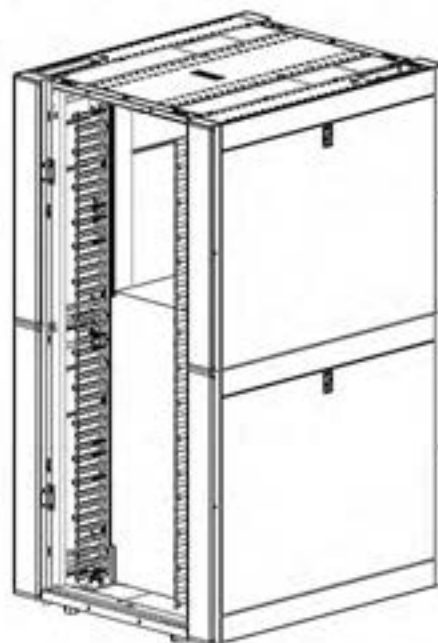


# Installation

## NetShelter<sup>®</sup> SX Side Airflow Solution Kit for Cisco<sup>®</sup> Nexus 7018

AR7742  
AR7747





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This manual is available in English on the APC Website ([www.apc.com](http://www.apc.com)).

Dieses Handbuch ist in Deutsch auf der APC Webseite ([www.apc.com](http://www.apc.com)) verfügbar.

Este manual está disponible en español en la página web de APC ([www.apc.com](http://www.apc.com)).

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Данное руководство на русском языке доступно на сайте APC ([www.apc.com](http://www.apc.com) )

Bu kullanım klavuzunun Türkçesi APC web sayfasında ([www.apc.com](http://www.apc.com)) mevcuttur.

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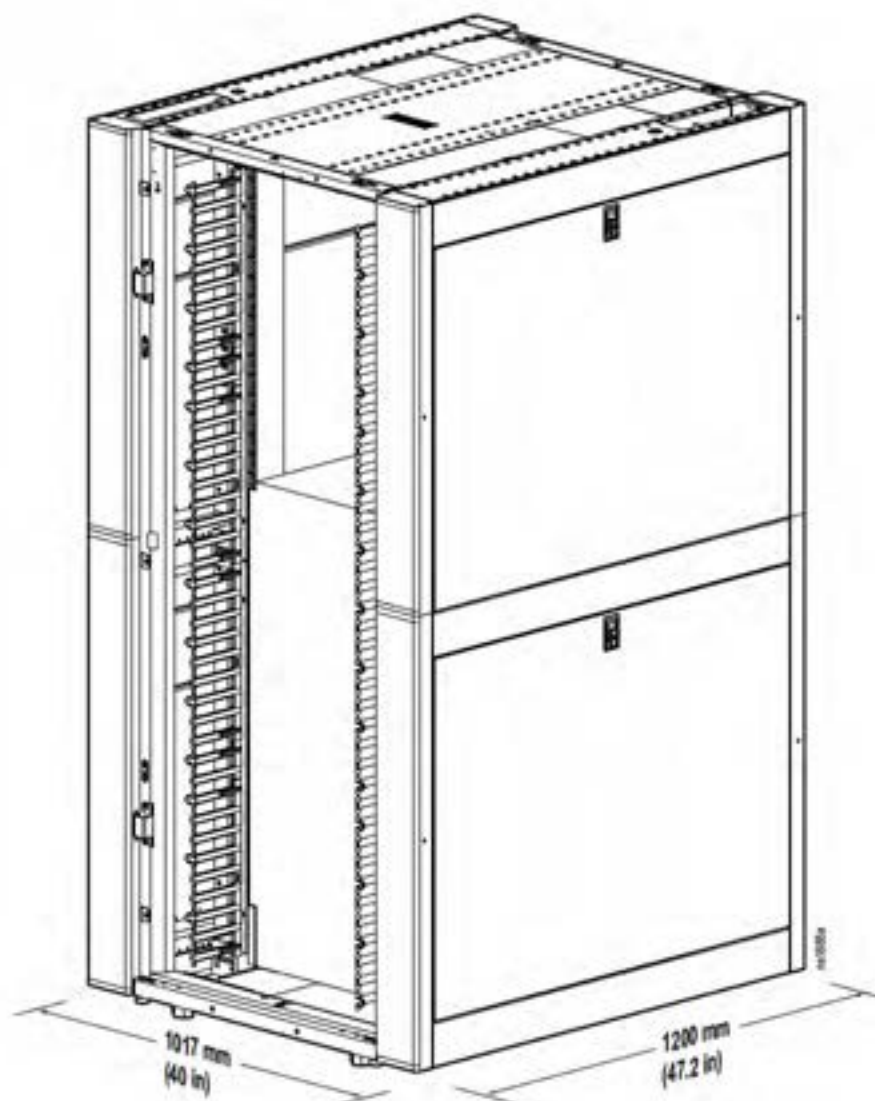
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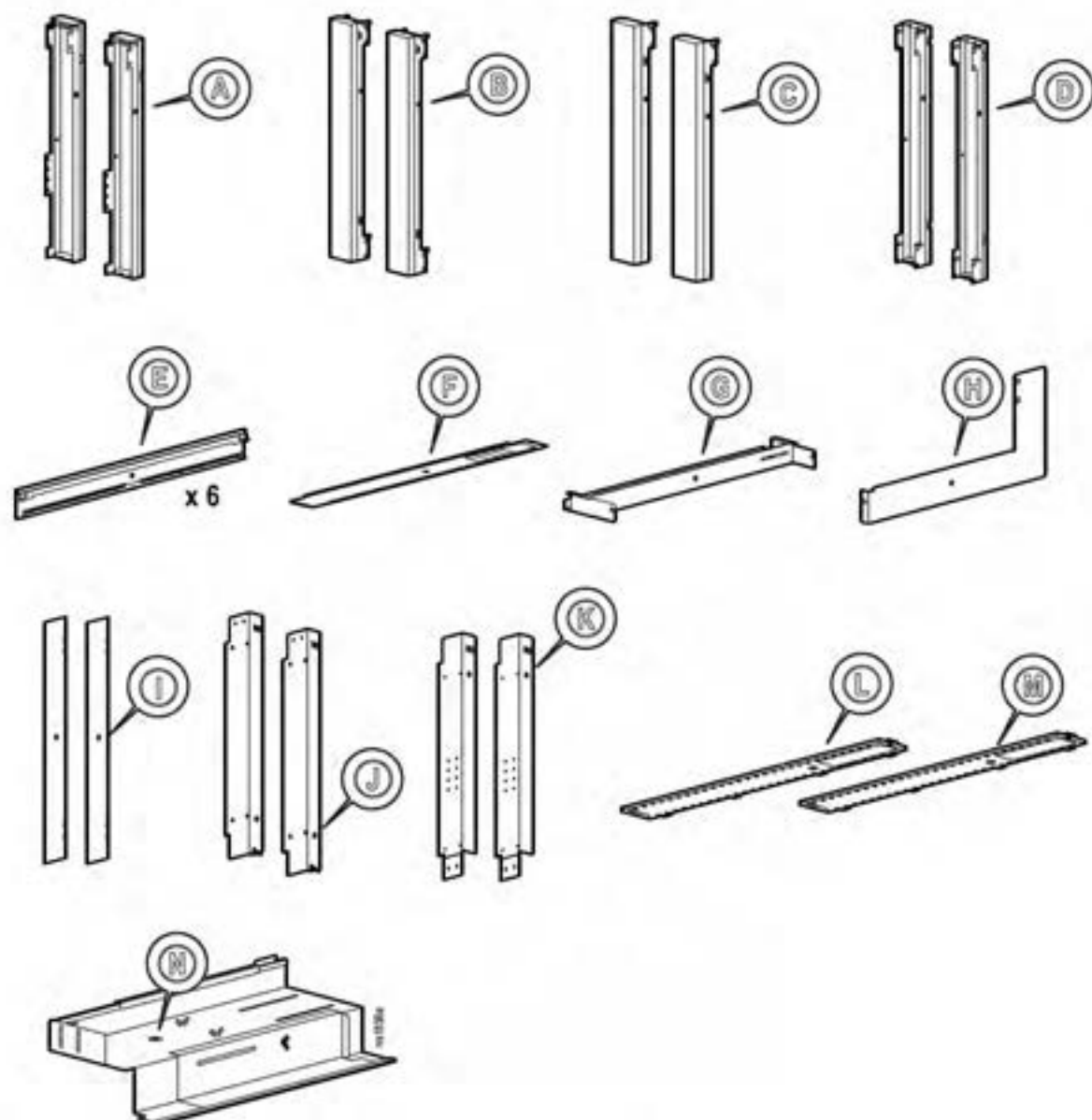


# Overview

The NetShelter SX Side Airflow Solution Kit for Cisco® Nexus 7018, when installed on a NetShelter SX 1200-mm deep Networking Enclosure (AR3340 or AR3347), solves the airflow requirements of the Cisco Nexus 7018 switch. The kit will increase the width of the enclosure by 127 mm (5 in) on each side to provide the side-to-side airflow required by the switch. The use of internal baffles isolates the hot and cold air inside the enclosure.



# Inventory



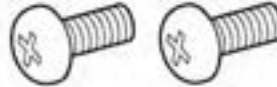
- |          |                                    |          |                                 |
|----------|------------------------------------|----------|---------------------------------|
| <b>A</b> | Upper, right-hand perforated frame | <b>H</b> | Lower rear baffle               |
| <b>B</b> | Lower, left-hand perforated frame  | <b>I</b> | Vertical mounting flange baffle |
| <b>C</b> | Upper, left-hand perforated frame  | <b>J</b> | Lower vertical baffle           |
| <b>D</b> | Lower, right-hand perforated frame | <b>K</b> | Upper vertical baffle           |
| <b>E</b> | Side brace                         | <b>L</b> | Left-hand top cover             |
| <b>F</b> | Bottom cover                       | <b>M</b> | Right-hand top cover            |
| <b>G</b> | Lower exhaust baffle               | <b>N</b> | Horizontal baffle assembly      |



x 33  
M5 x 12 Phillips flat-head  
screw



x 21  
M6 x 12 Phillips flat-head  
screw



M8 x 16 Phillips pan head  
screw



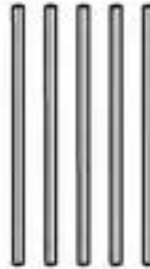
x 12  
M6 x 16 Phillips slot  
screw with washer



x 11  
M6 x 12 wing screw



x 6  
M6 flat washer



Foam gaskets



3 m (9.8 ft) edge  
protection grommet



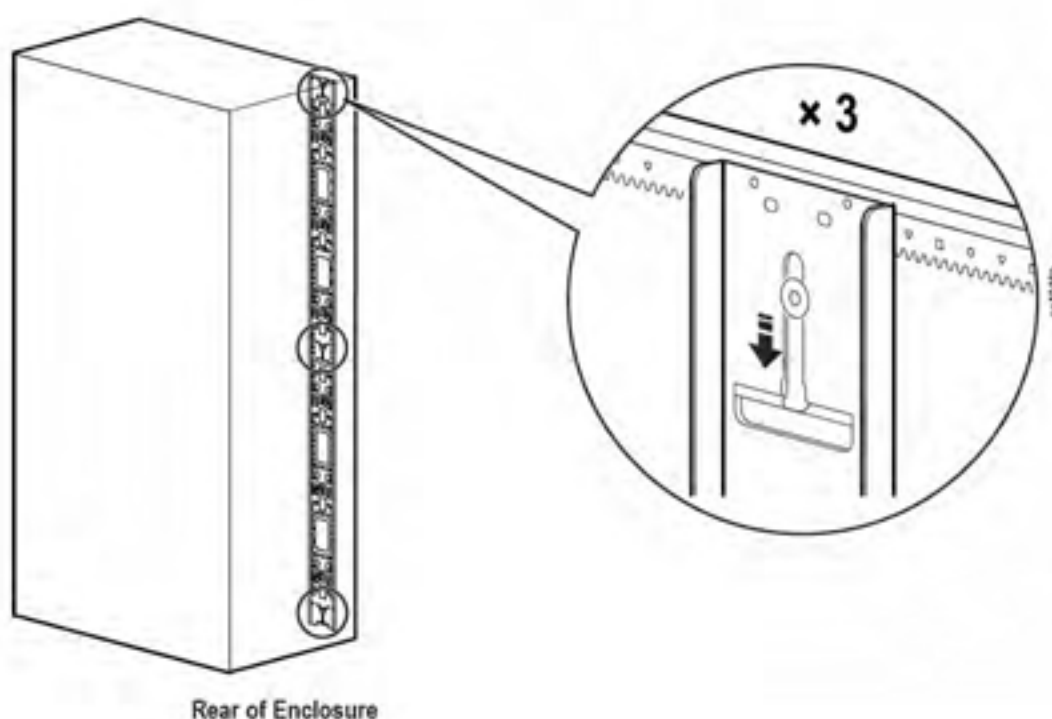
x 8  
Enclosure joining bracket

# Installation

The NetShelter SX Networking Enclosure Airflow Solution Kit should be installed prior to the installation of the Nexus 7018 switch.

## Removing side panels, doors, and a vertical 0 U accessory channel

1. Remove and retain side panels and doors. (Refer to the manual shipped with your enclosure.)
2. Remove the right-hand vertical 0 U accessory channel as follows. Removing the vertical 0 U accessory channel in the step below improves exhaust airflow.
  - a. When viewing the enclosure from the rear, loosen the three TORX screws securing the right-hand vertical 0 U accessory channel to the side braces.
  - b. Lift and remove the vertical 0 U accessory channel.



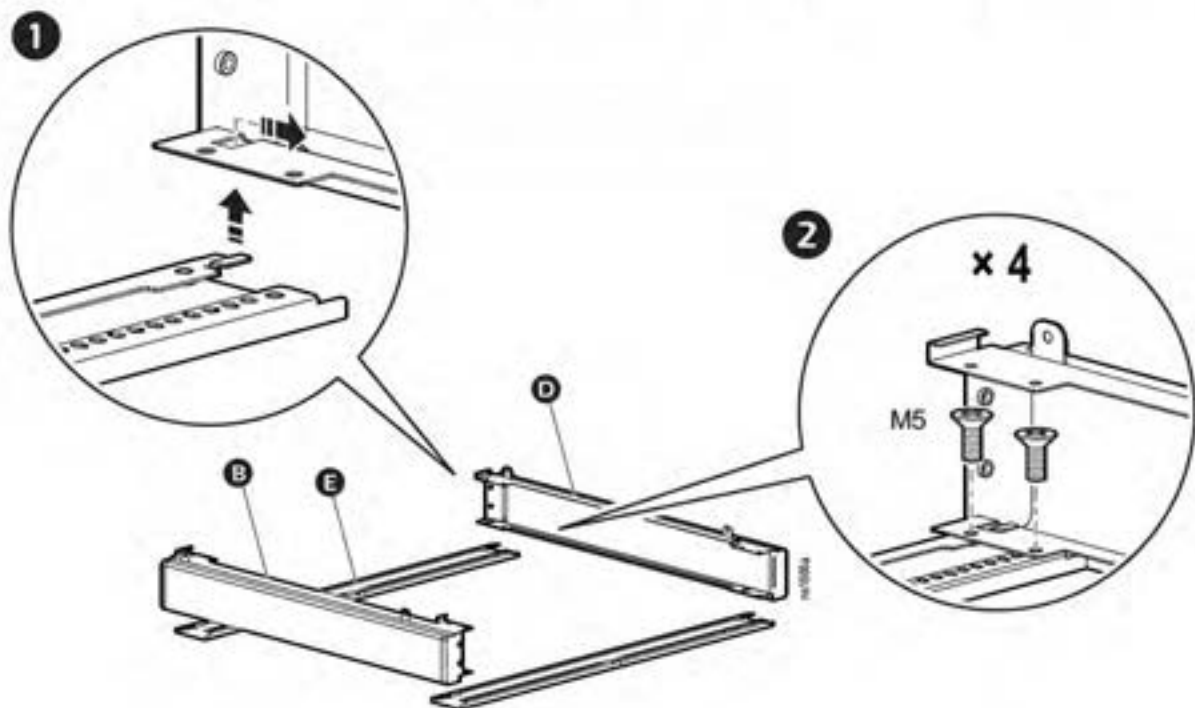
## Installing the side assemblies

Perform steps in this section to install side assemblies on one side of the enclosure, and then repeat the steps for the other side of the enclosure.

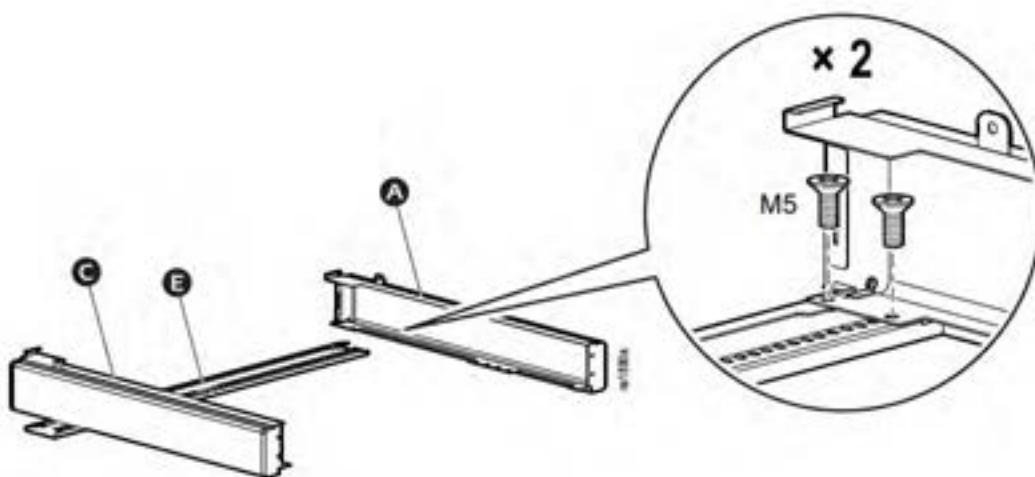


**Note:** Assemble perforated frame and side braces on a clean, smooth surface to protect the parts from scratches.

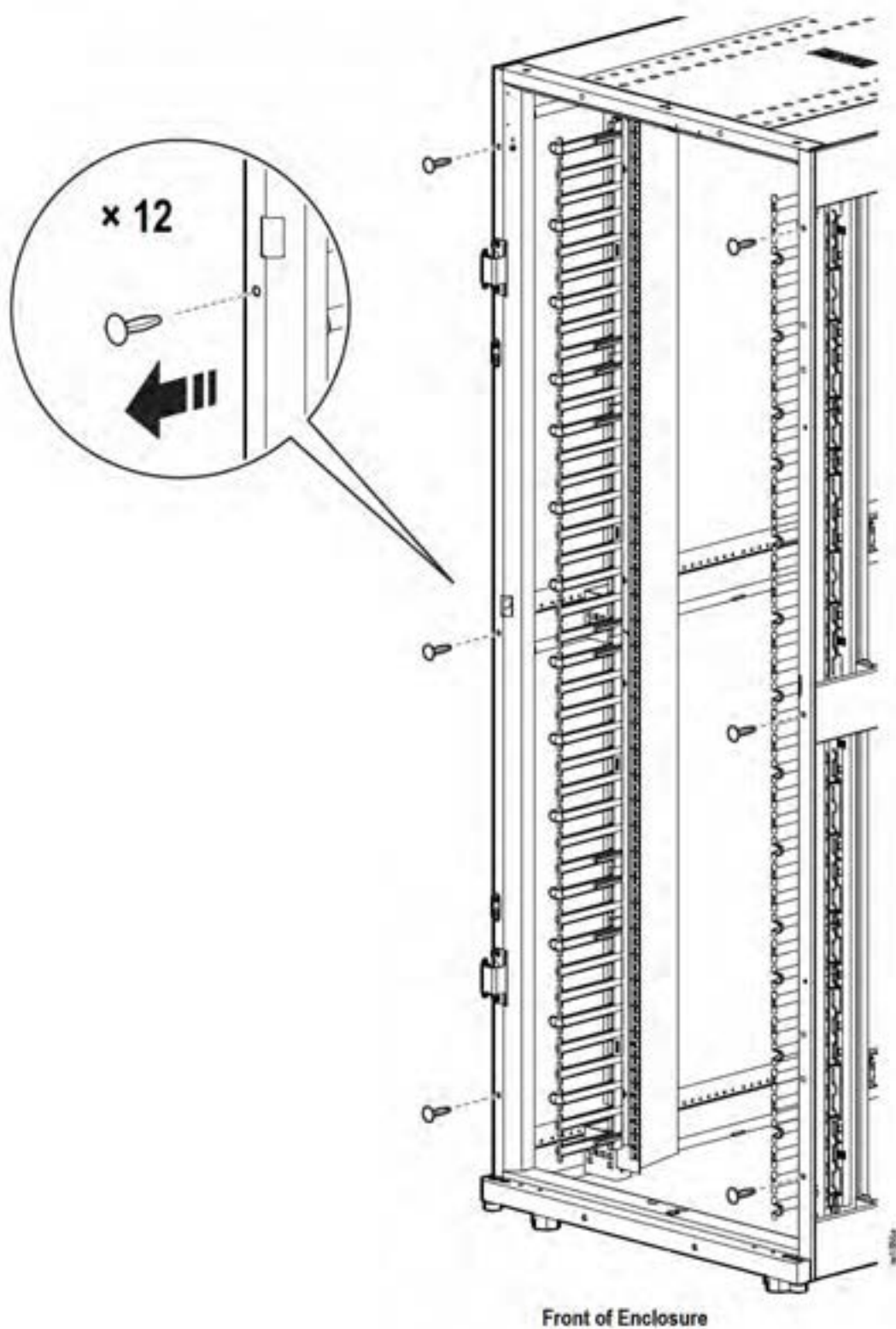
1. Using eight M5 screws, assemble the lower side assembly by connecting two side braces (E) to the lower perforated frame (B) and (D). Be sure to orient parts as shown.



2. Using four M5 screws, assemble the upper side assembly by connecting one side brace (E) to the upper perforated frame (C) and (A).



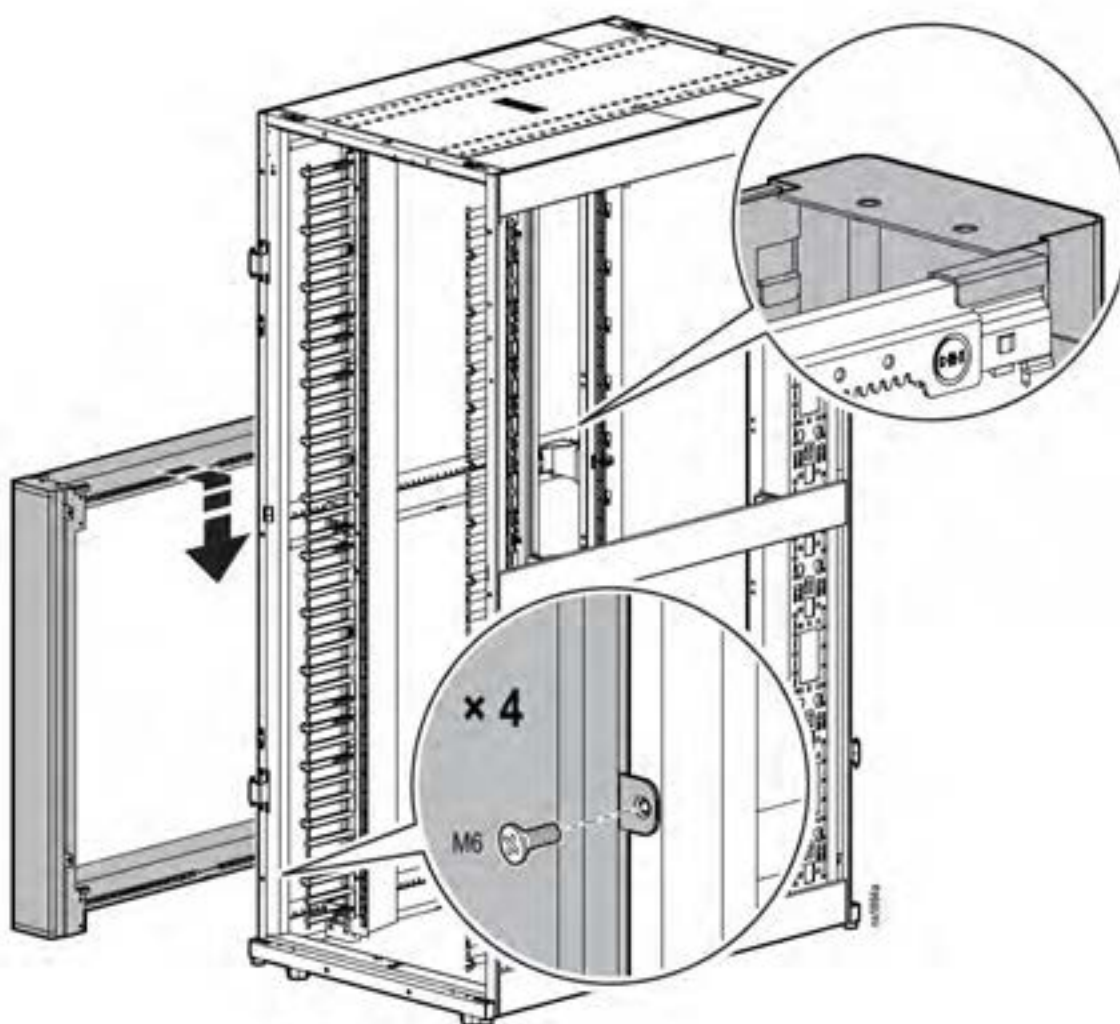
3. Remove the 12 hole plugs from the front and rear of the enclosure frame.





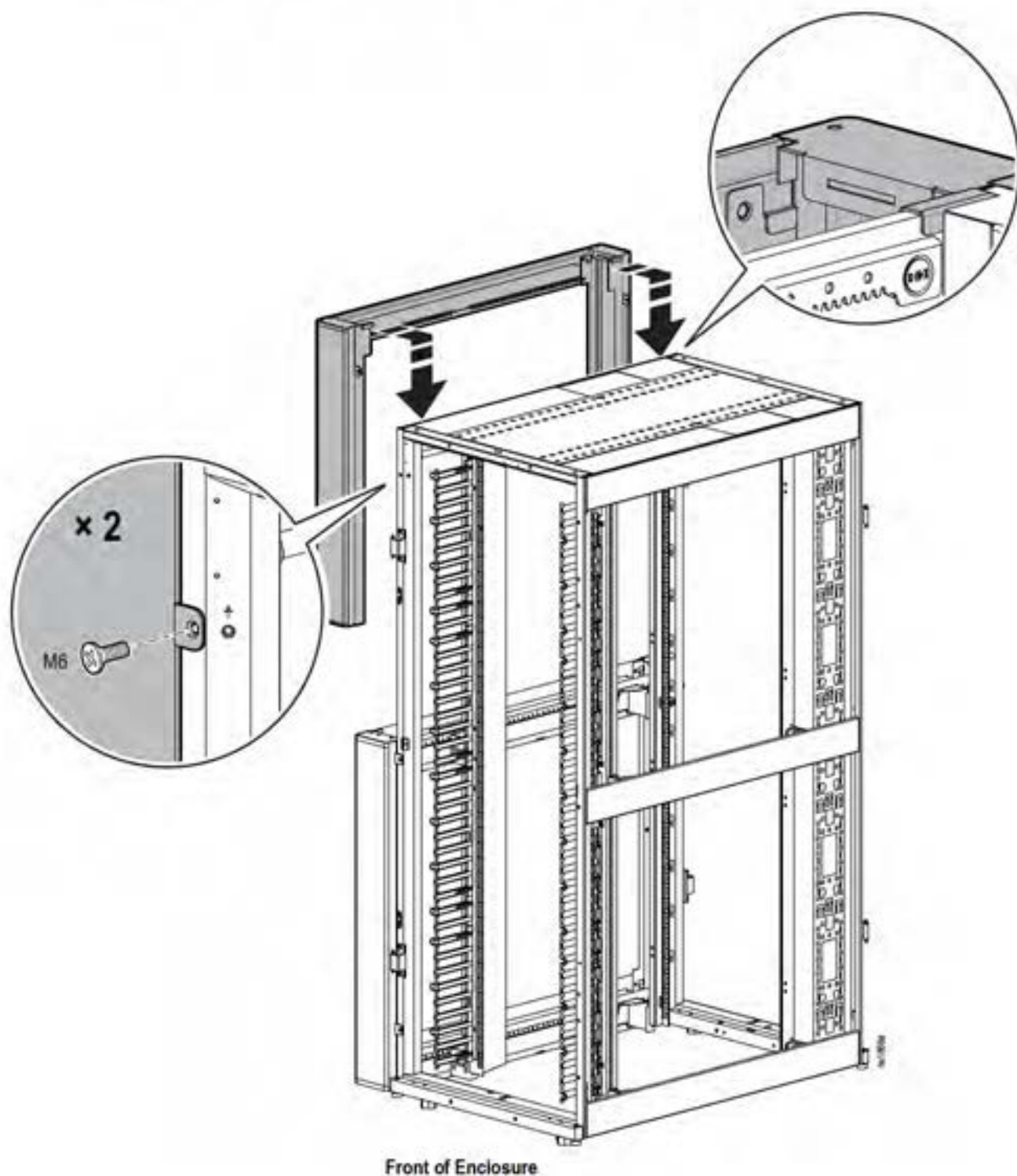
**Note:** To ensure proper installation of the side assemblies, first align the side assembly so that the tabs will be on the outside of the enclosure, then hang the assembly on the side braces.

4. Using the four hanging tabs, hang the lower side assembly onto the middle and lower side braces of the enclosure. Secure with four M6 screws, two in the front and two in the rear.

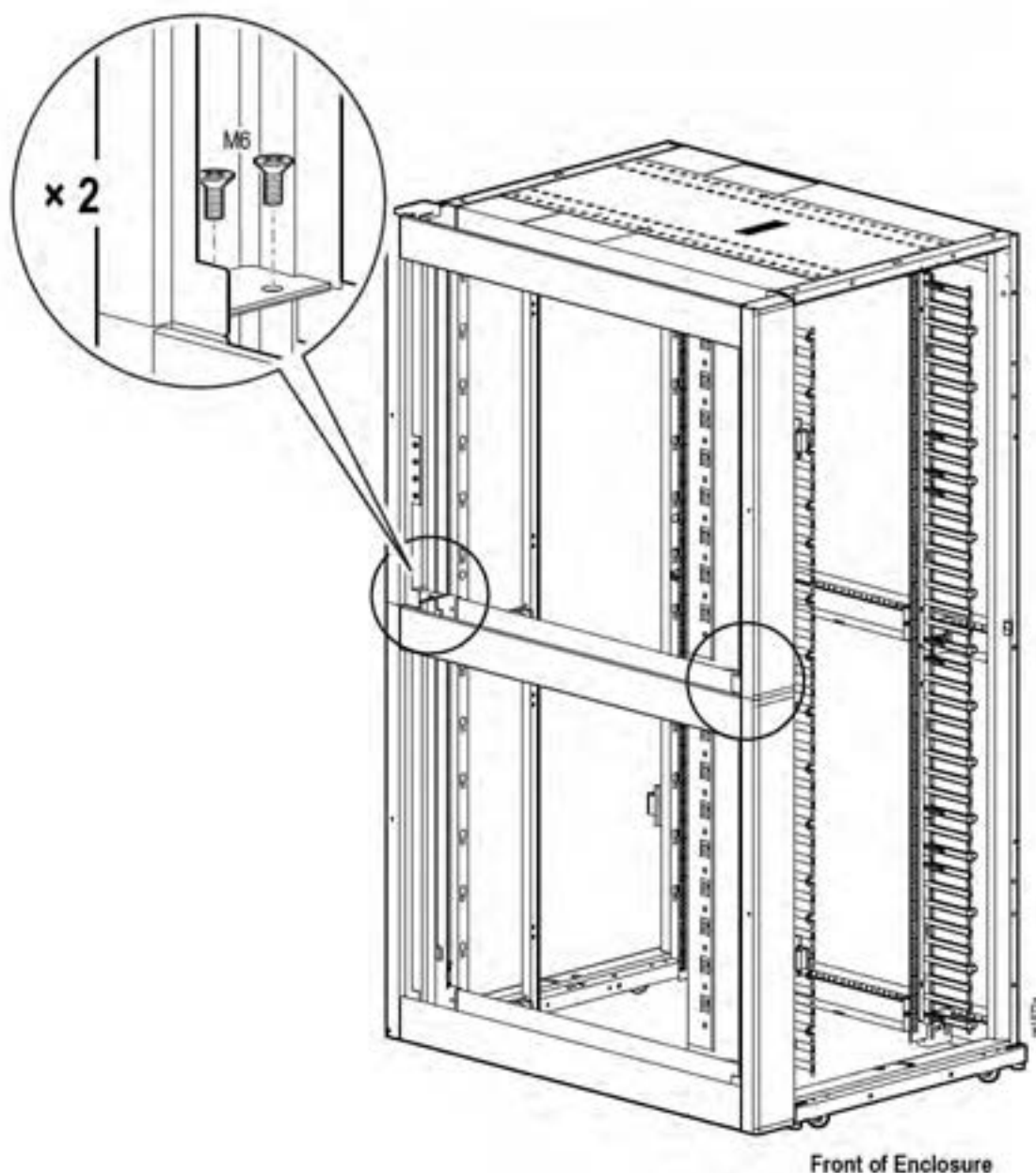


Front of Enclosure

5. Using the two hanging tabs, hang the upper side assembly onto the top side brace of the enclosure. Secure with two M6 screws, one in the front and one in the rear.

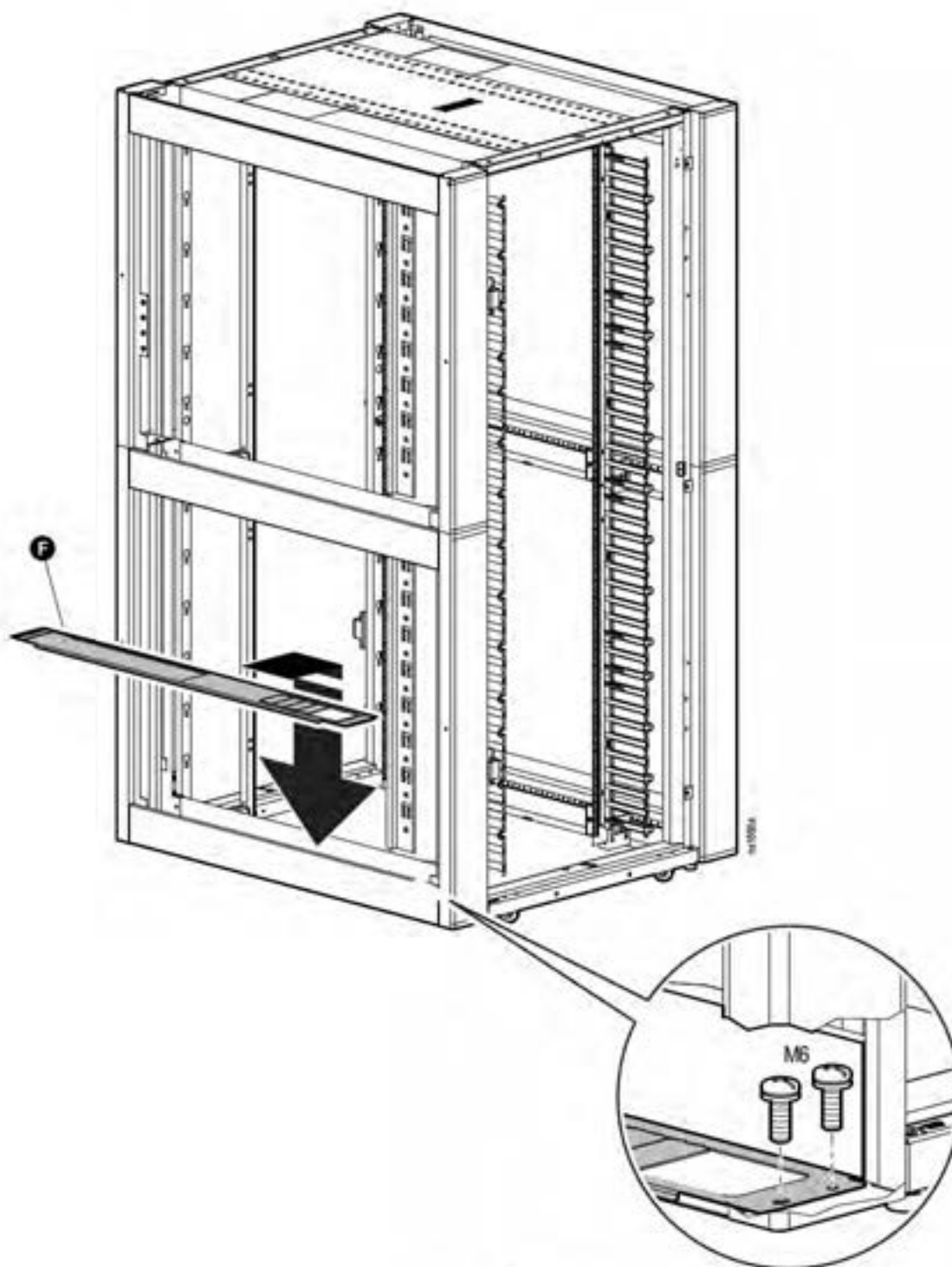


6. Using four M6 screws, secure the upper side assembly to the lower side assembly.



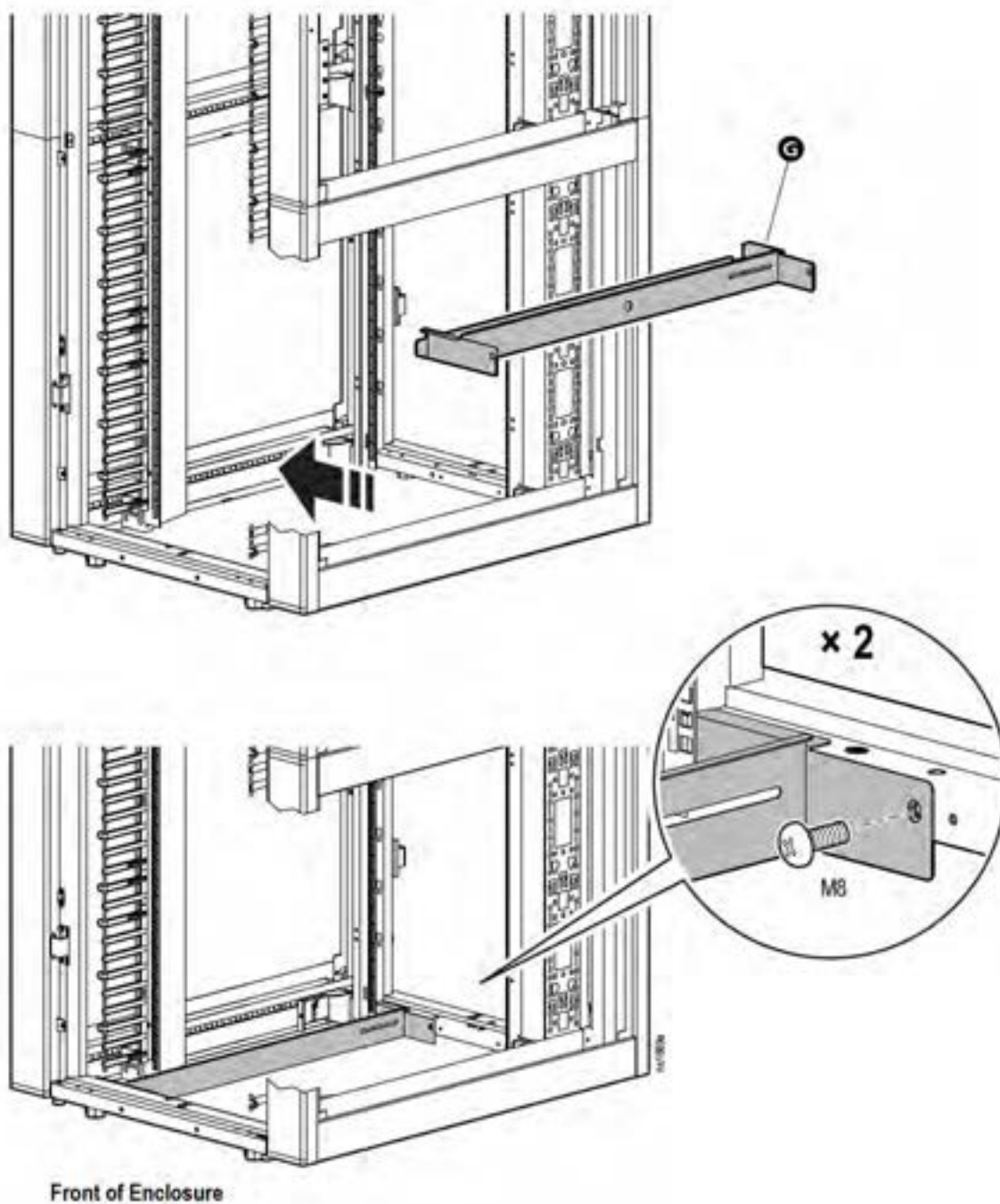
## Installing baffles and covers

1. Using two M6 Phillips slot screws with washer, install the bottom cover (F).

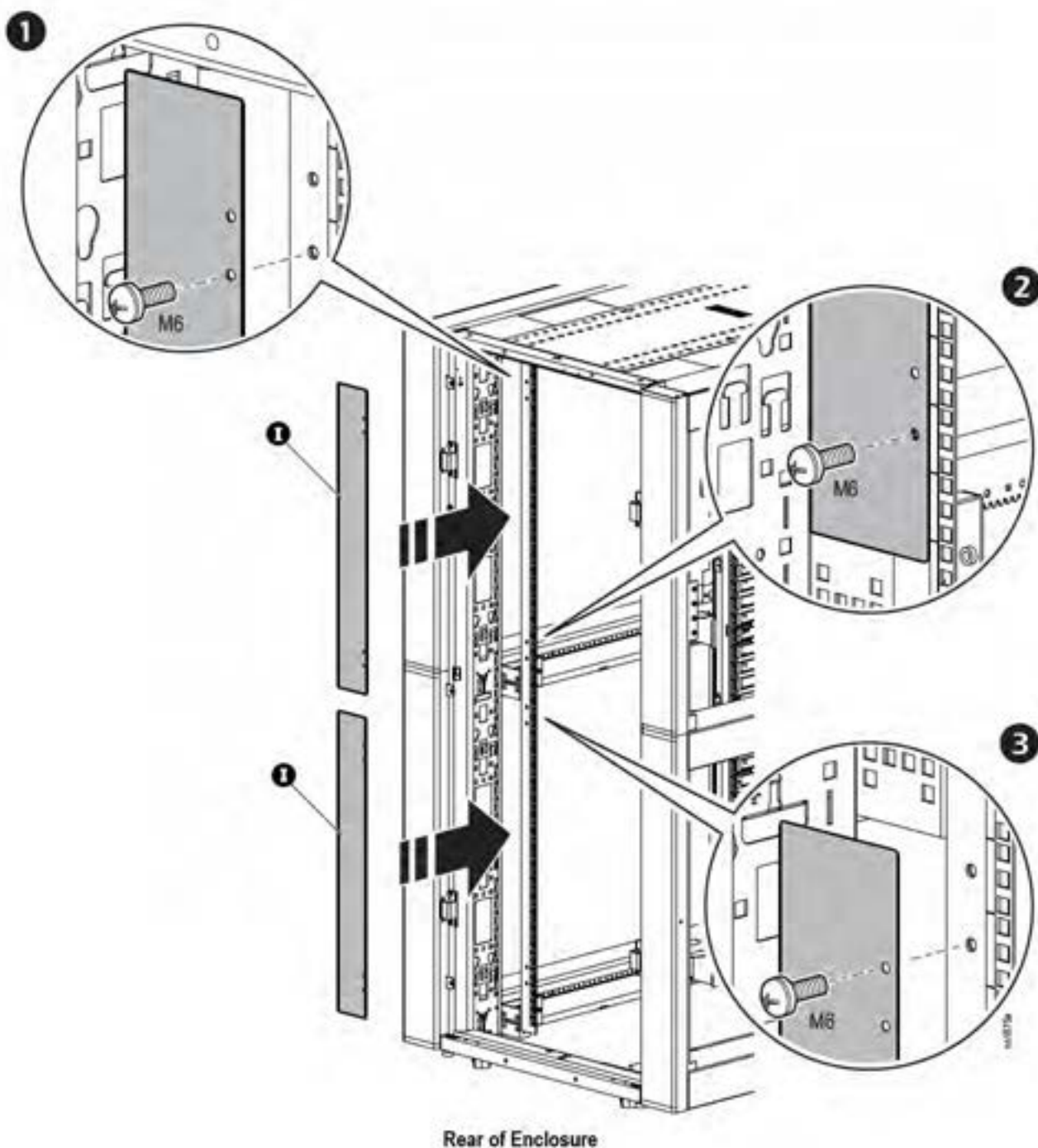


Front of Enclosure

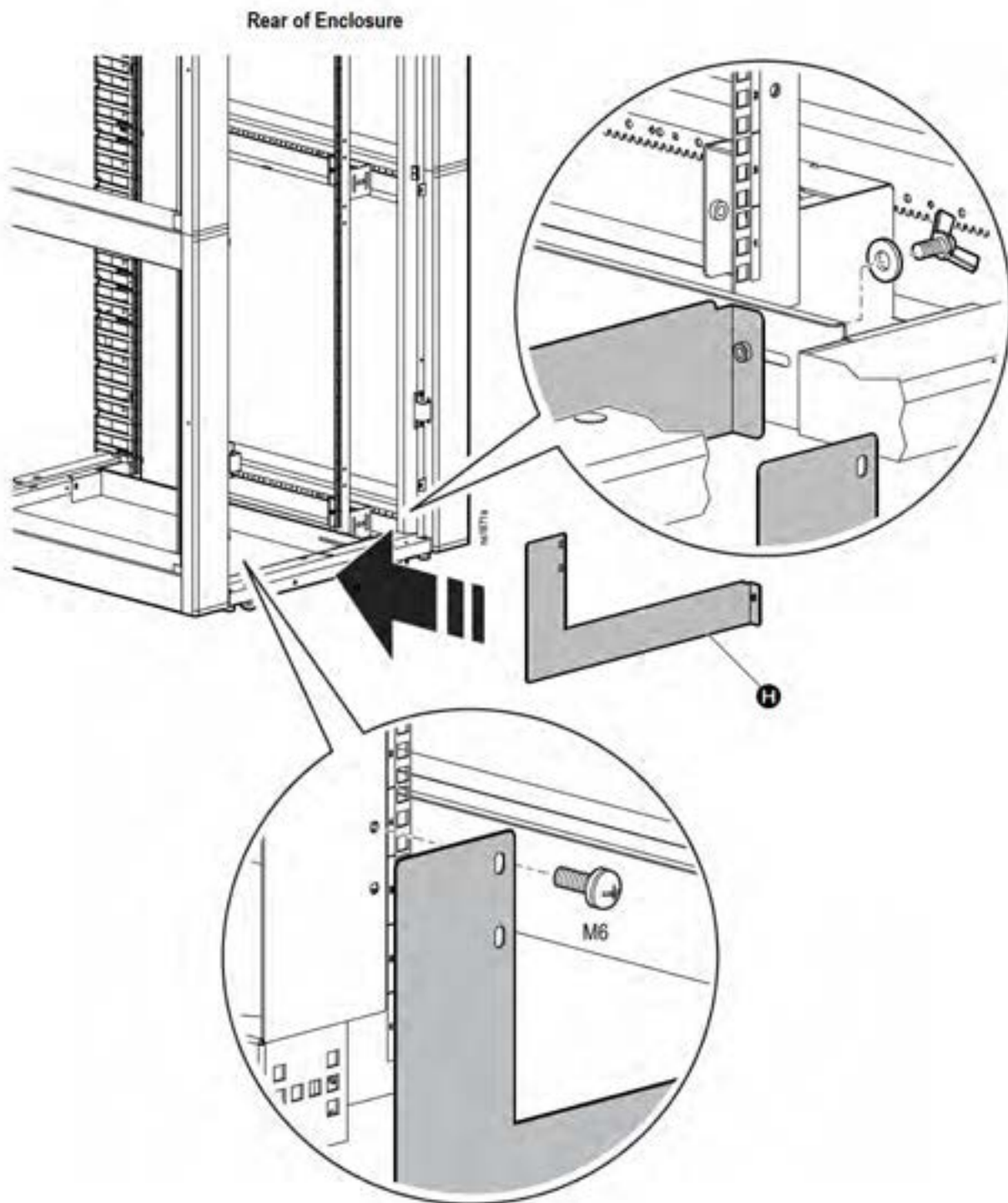
2. Using the two M8 screws, install the lower exhaust baffle (G).



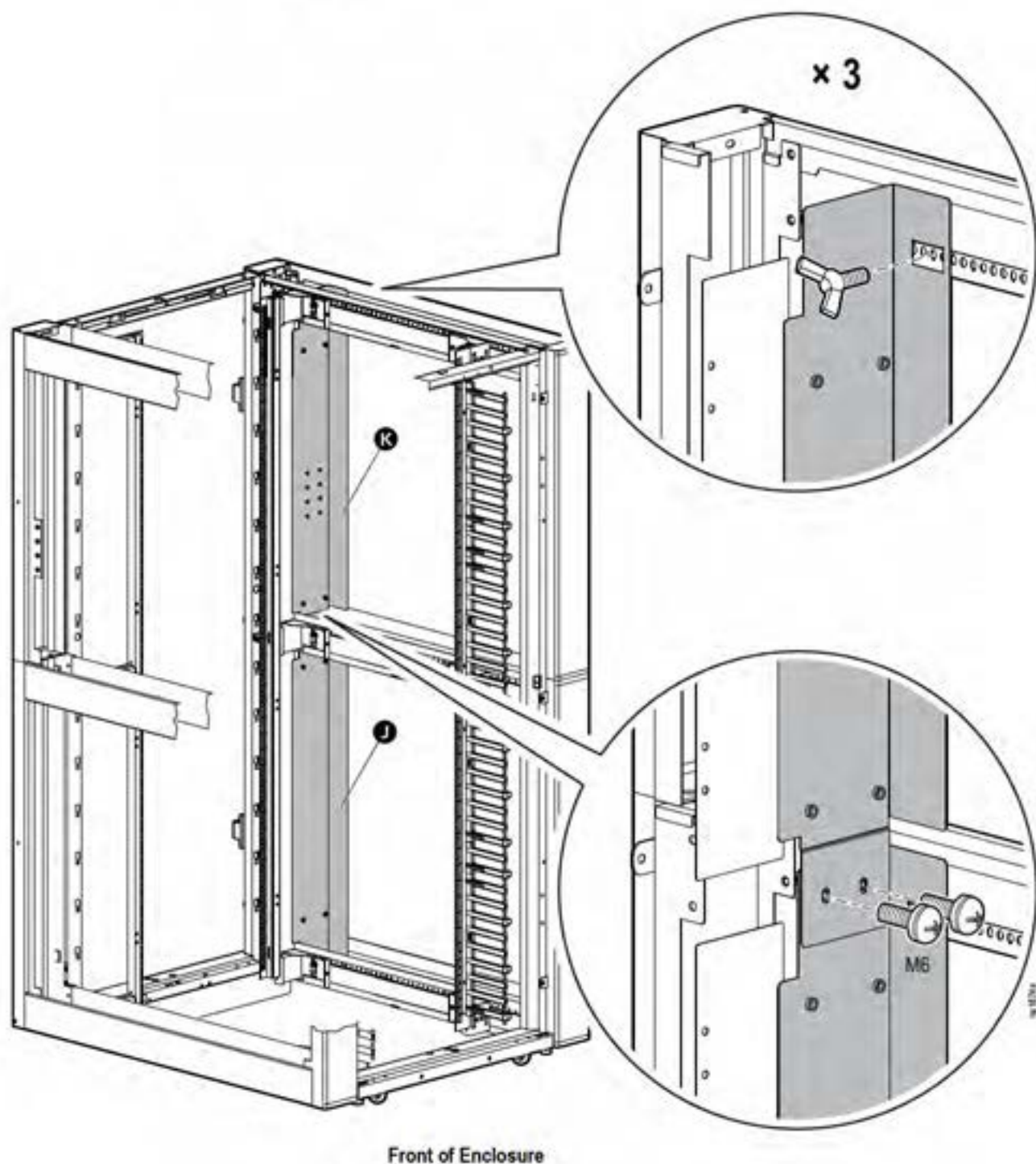
3. Using three M6 Phillips slot screws with washer, install the upper and lower vertical mounting flange baffles (I).



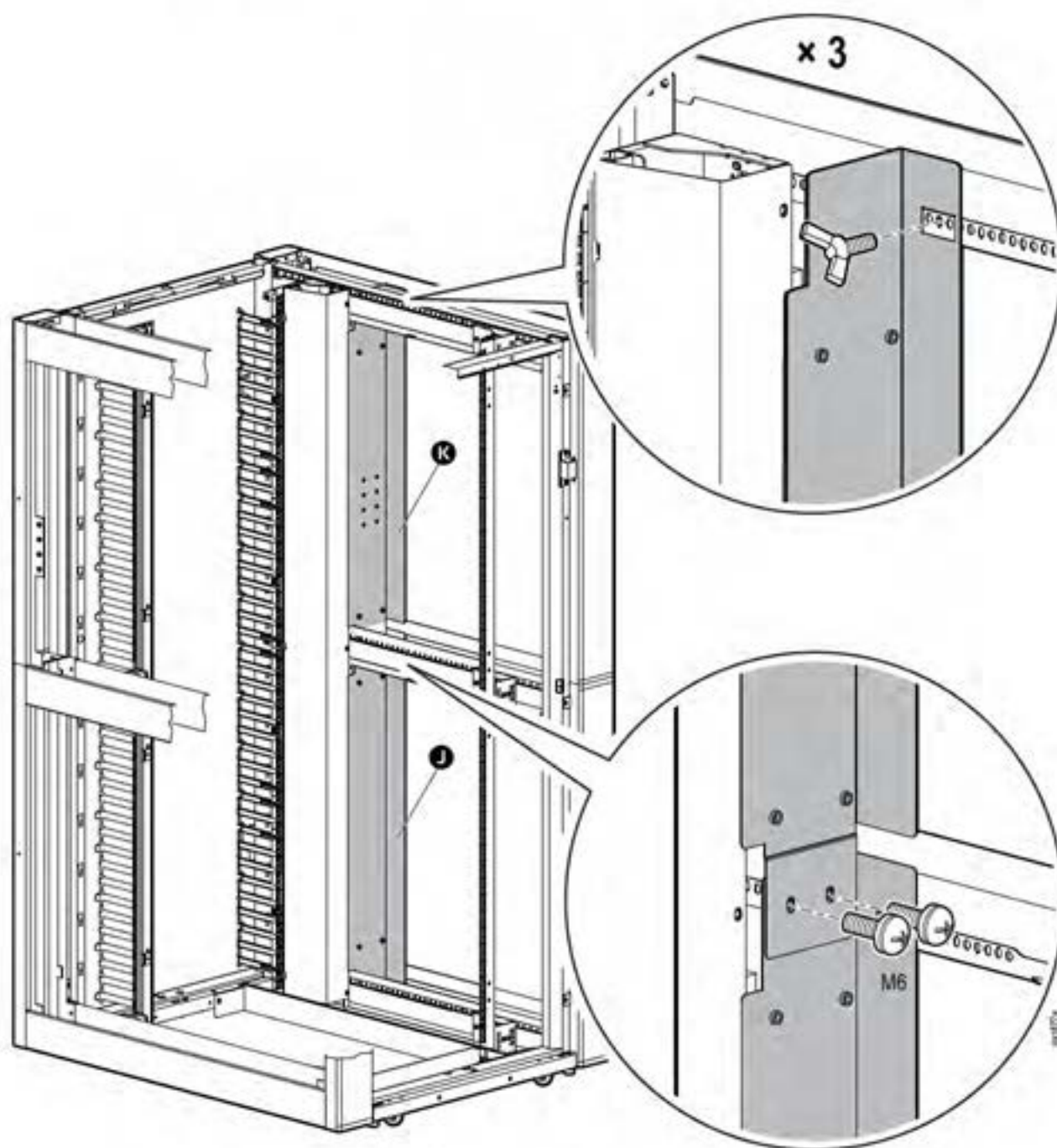
4. Using one M6 Phillips slot screw with washer, one M6 wing screw, and one M6 washer, install the lower rear baffle (H) to the lower vertical mounting flange baffle (installed in step 3) and the lower exhaust baffle.



5. When facing the front of the enclosure, install the lower and upper vertical baffles on the right-hand Airflow Solution Kit side braces as follows:
- Hook the lower vertical baffle (J) on the middle and bottom Airflow Solution Kit side braces.
  - Hook the upper vertical baffle (K) on the top Airflow Solution Kit side brace, and position both vertical baffles flush against the vertical mounting flange baffles.
  - Using two M6 Phillips slot screws with a washer and three M6 wing screws, secure the baffles in place.

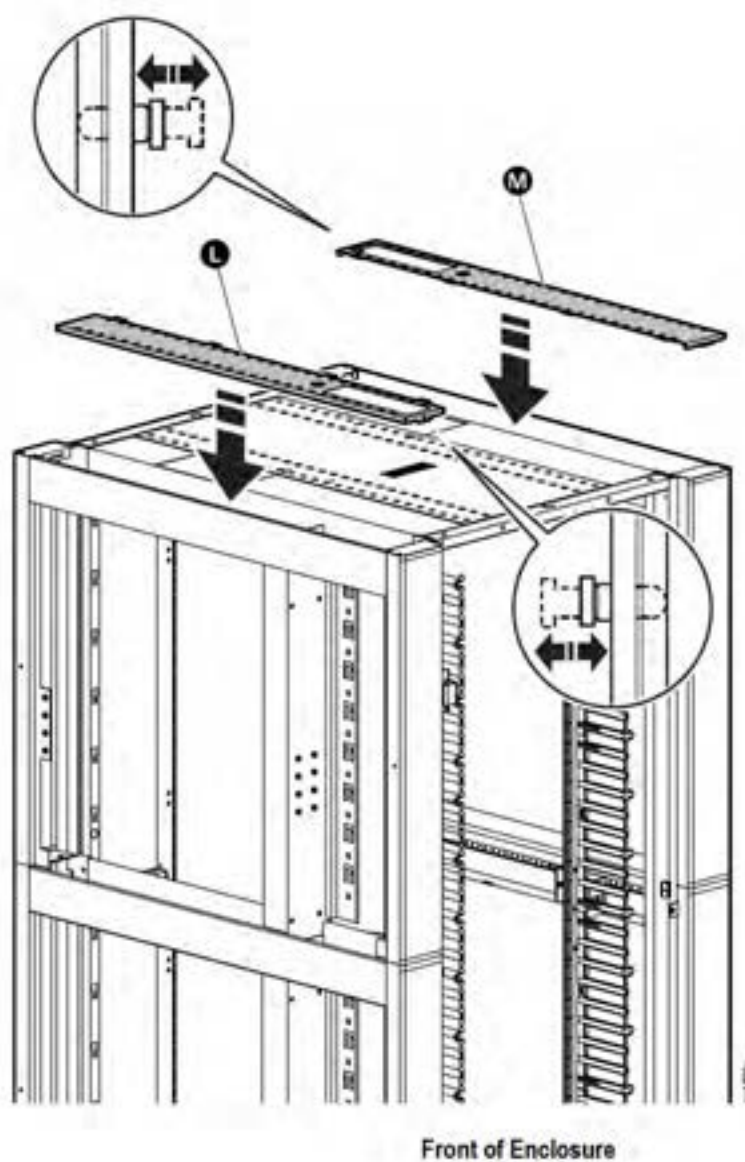


6. When facing the rear of the enclosure, install the lower and upper vertical baffles on the right-hand Airflow Solution Kit side braces as follows:
- Hook the lower vertical baffle (J) on the middle and bottom Airflow Solution Kit side braces.
  - Hook the upper vertical baffle (K) on the top Airflow Solution Kit side brace, and position both vertical baffles flush against the vertical mounting flange baffles.
  - Using two M6 Phillips slot screws with washer and three M6 wing screws, secure the baffles in place.



Rear of Enclosure

7. Install the left (L) and right (M) top covers.



## Installing the Nexus switch

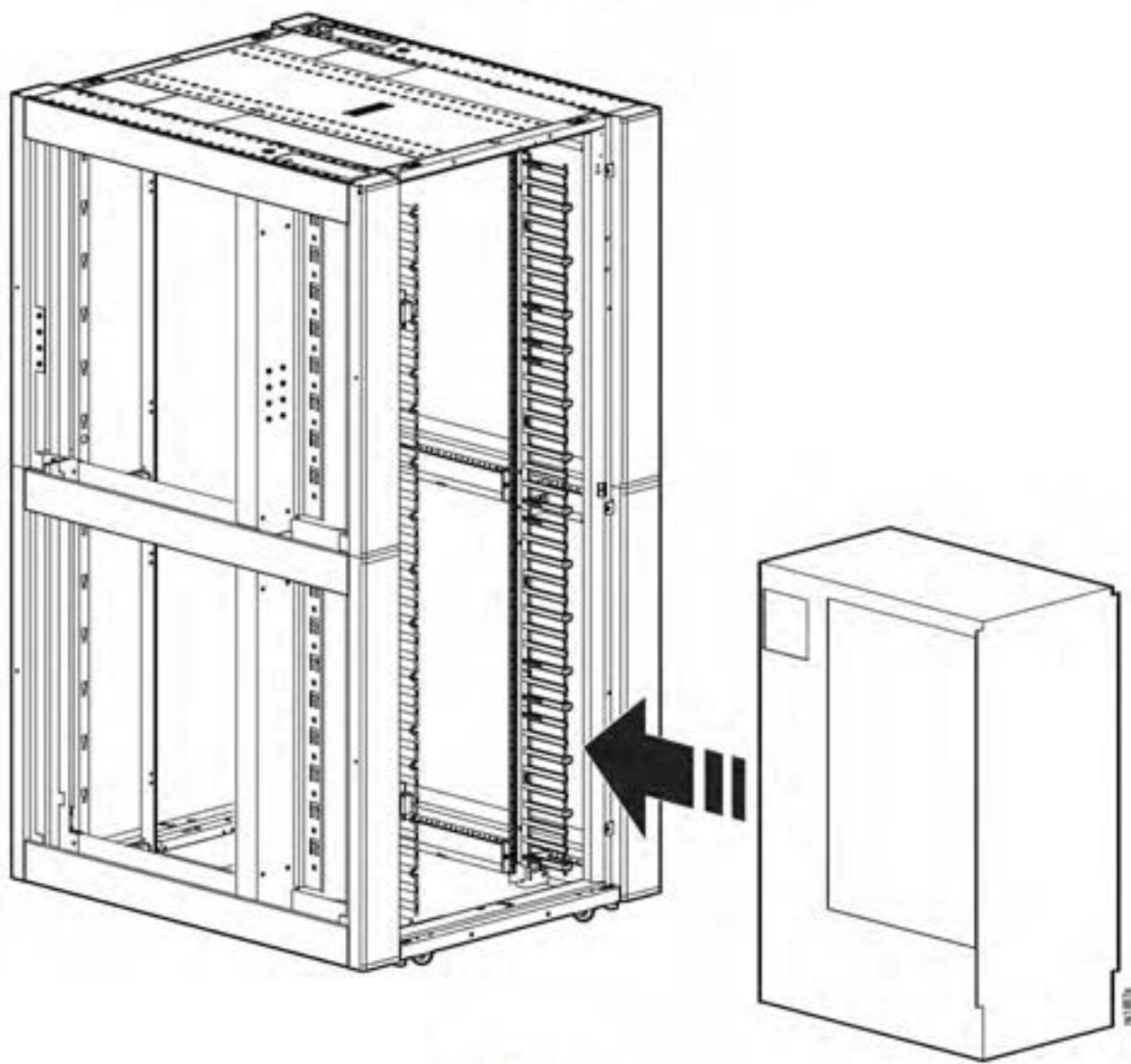
### ⚠ CAUTION

#### HEAVY EQUIPMENT

Follow manufacturer's instructions to install the Nexus switch in the NetShelter Networking enclosure.

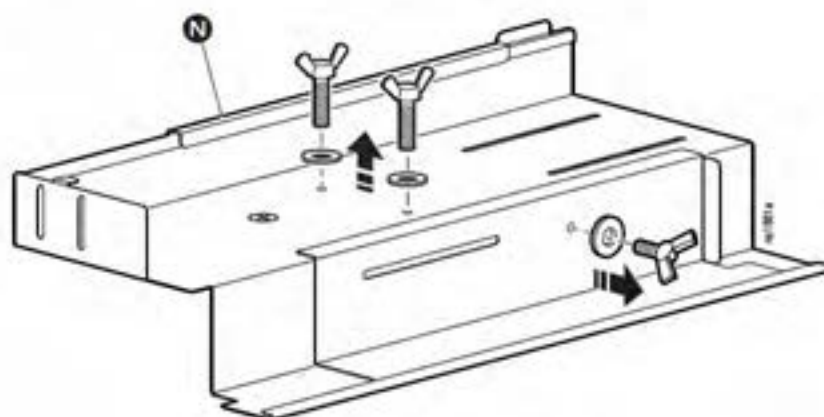
**Failure to follow these instructions can result in injury or equipment damage.**

1. Install the Nexus switch in the bottom U space so the side containing the ports faces the front of the enclosure and toward the cold air supply.
  - You can install the switch in U space locations one through four.
  - Use the mounting rails included with the switch.

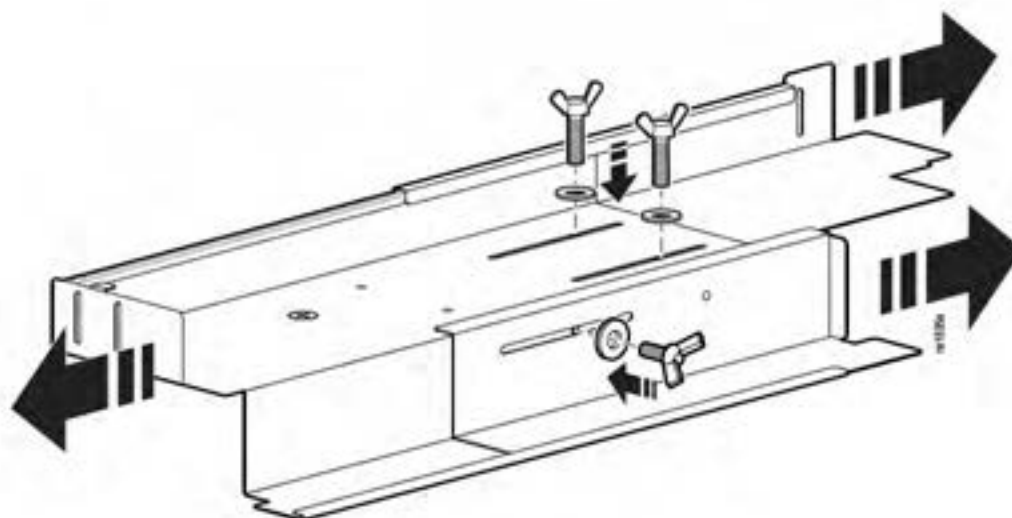


Front of Enclosure

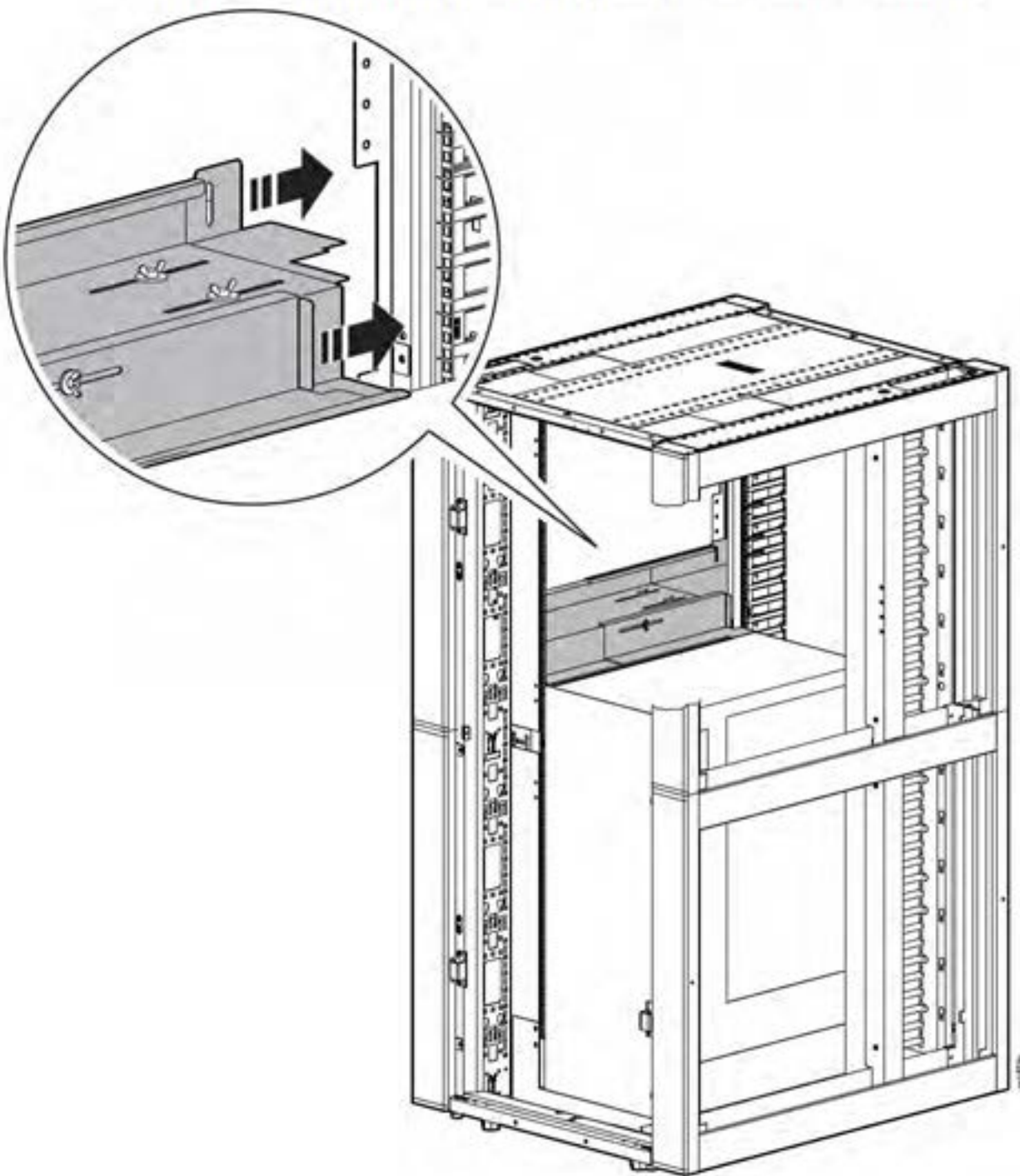
2. Remove and retain the three wing screws and washers in the horizontal baffle assembly (N).



3. Expand the horizontal baffle assembly. Reinstall, but do not tighten, the wing screws and washers.



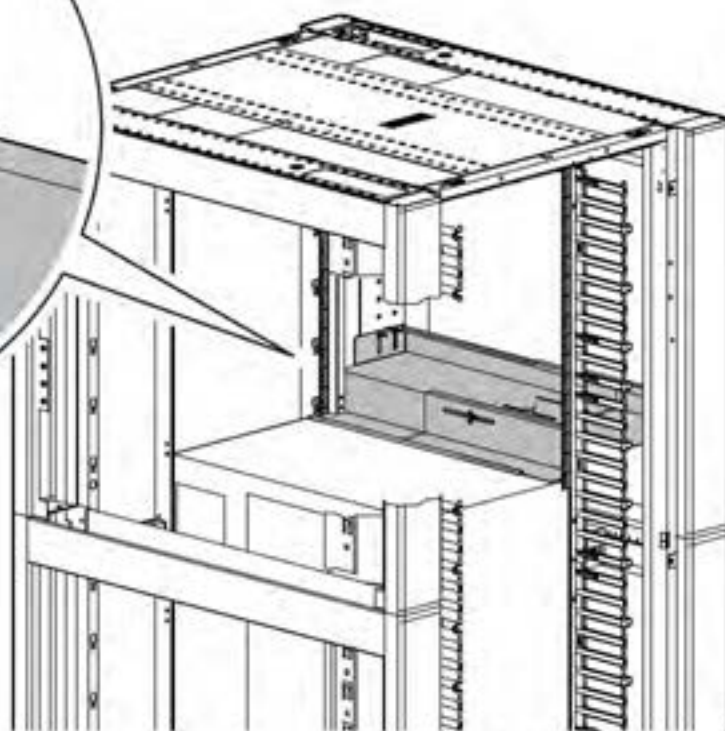
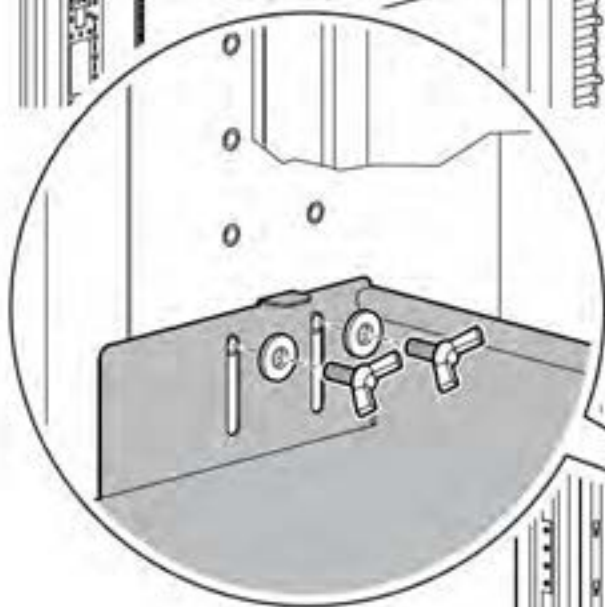
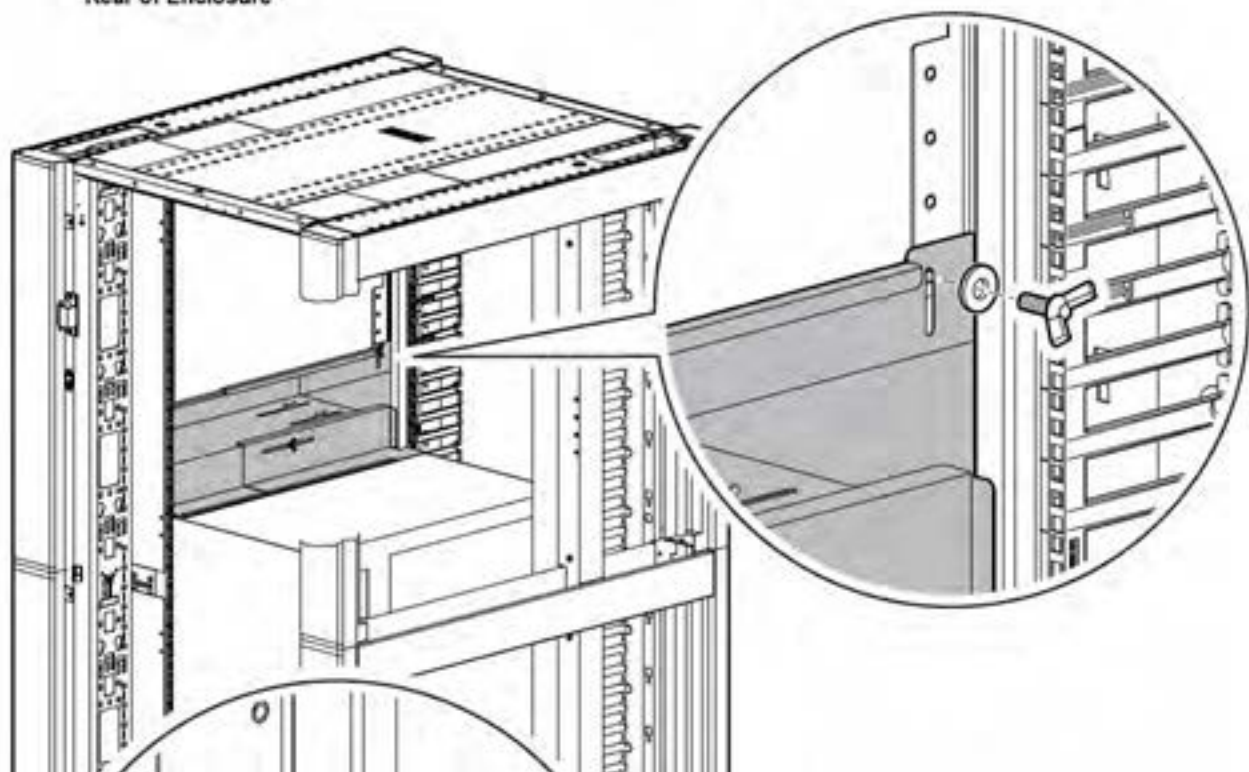
4. Position the horizontal baffle assembly on top of the Nexus switch and extend the assembly toward the attachment points on the front upper perforated frame and upper vertical baffle.



Rear of Enclosure

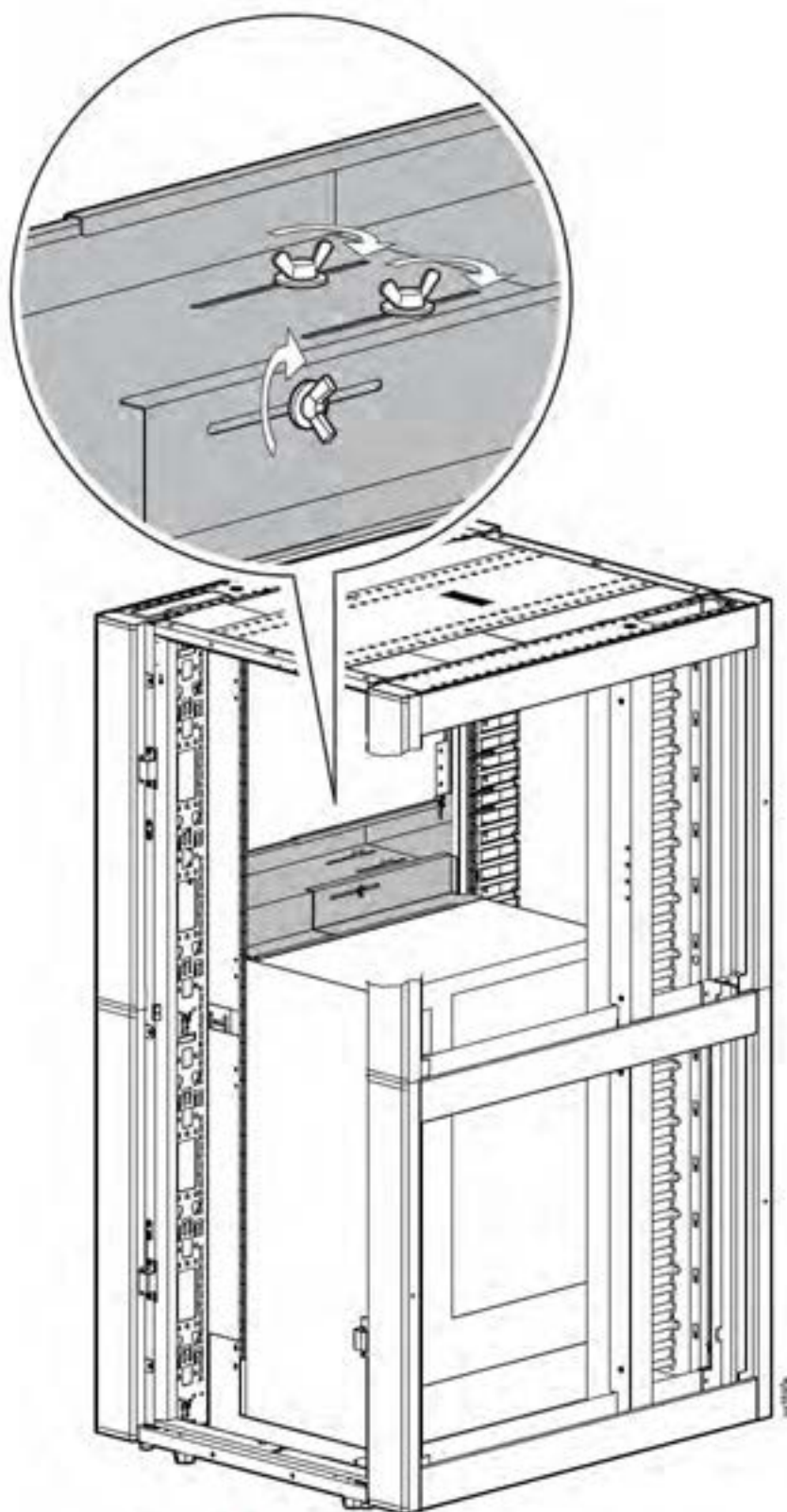
5. Using three M6 wing screws and three M6 washers, secure the horizontal baffle assembly to the front upper perforated frame and vertical baffle of the Airflow Solution Kit.

Rear of Enclosure



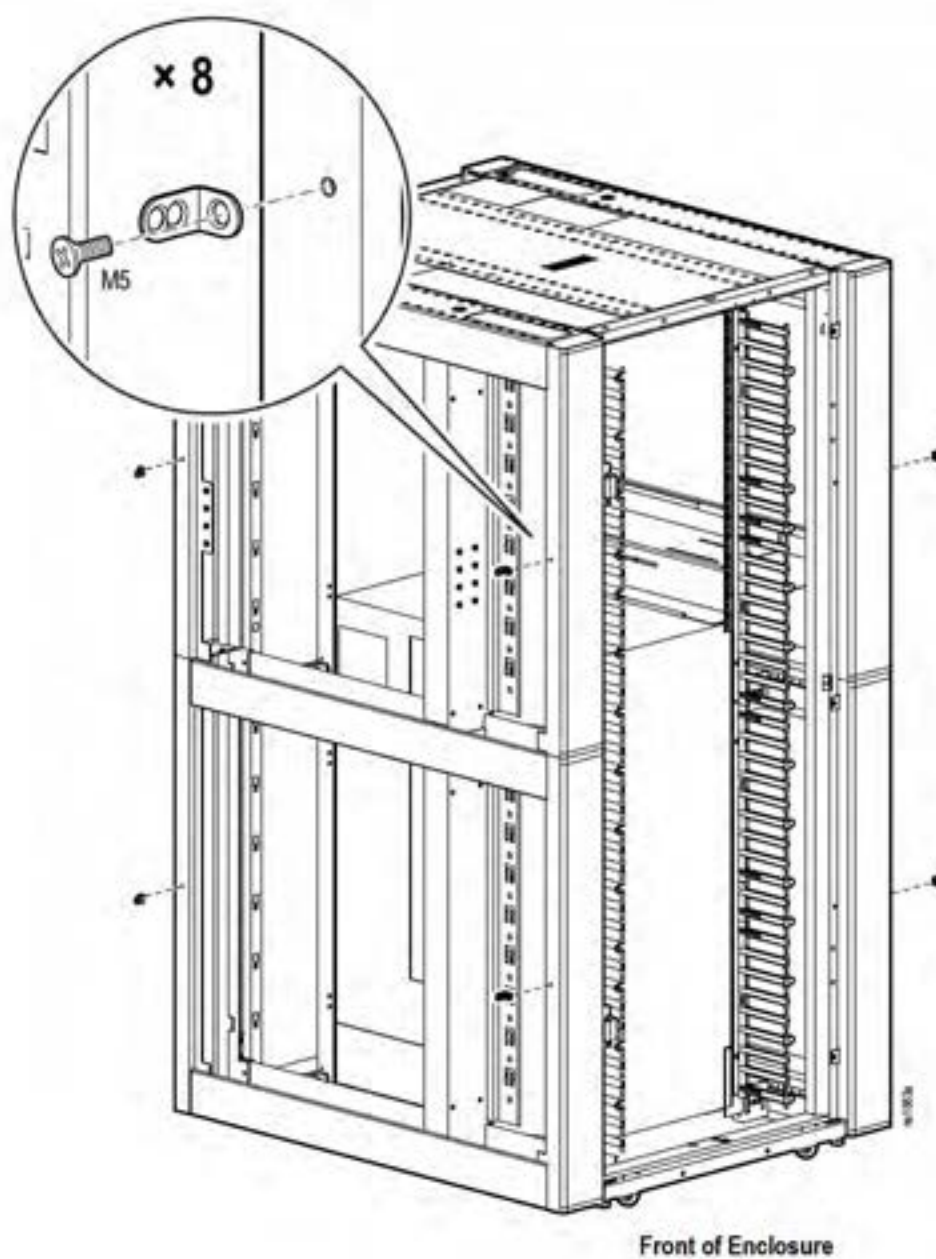
Front of Enclosure

6. Tighten the three wing screws in the middle of the assembly.

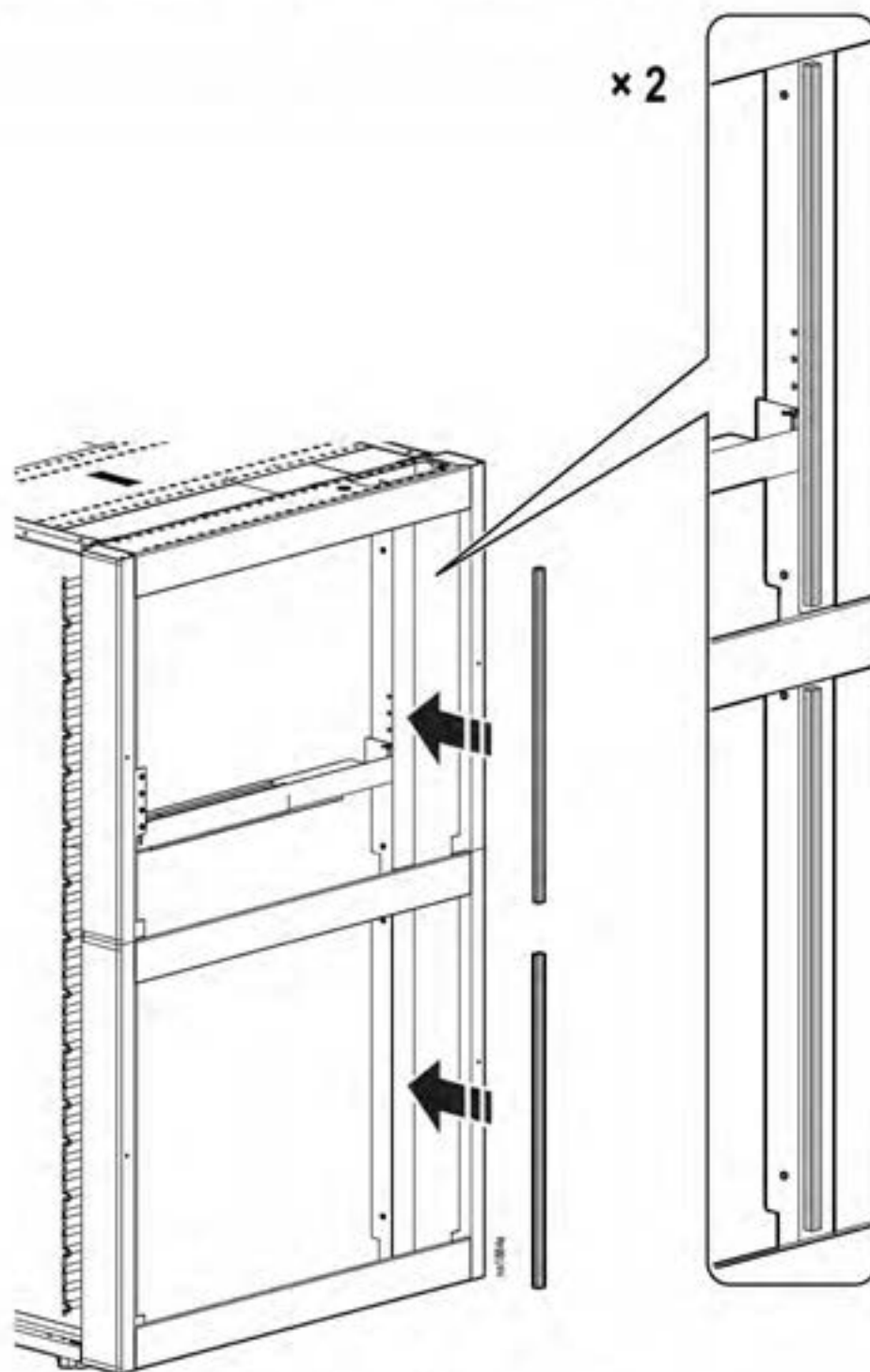


Rear of Enclosure

7. Using eight M5 screws, install eight enclosure joining brackets, four on the left side of the enclosure and four on the right side.

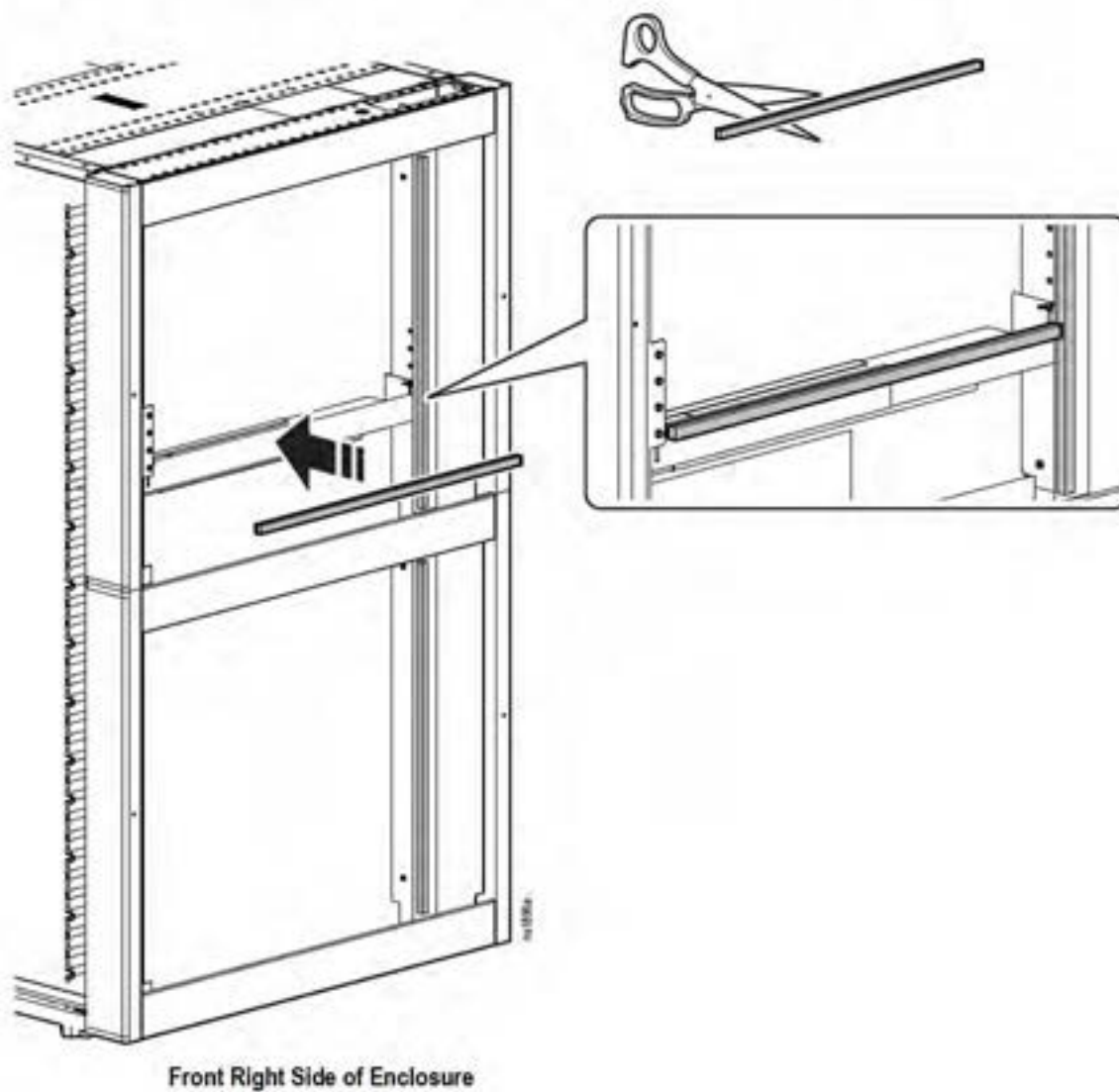


8. On the left and right sides of the enclosure, install foam gaskets on the four vertical baffles.

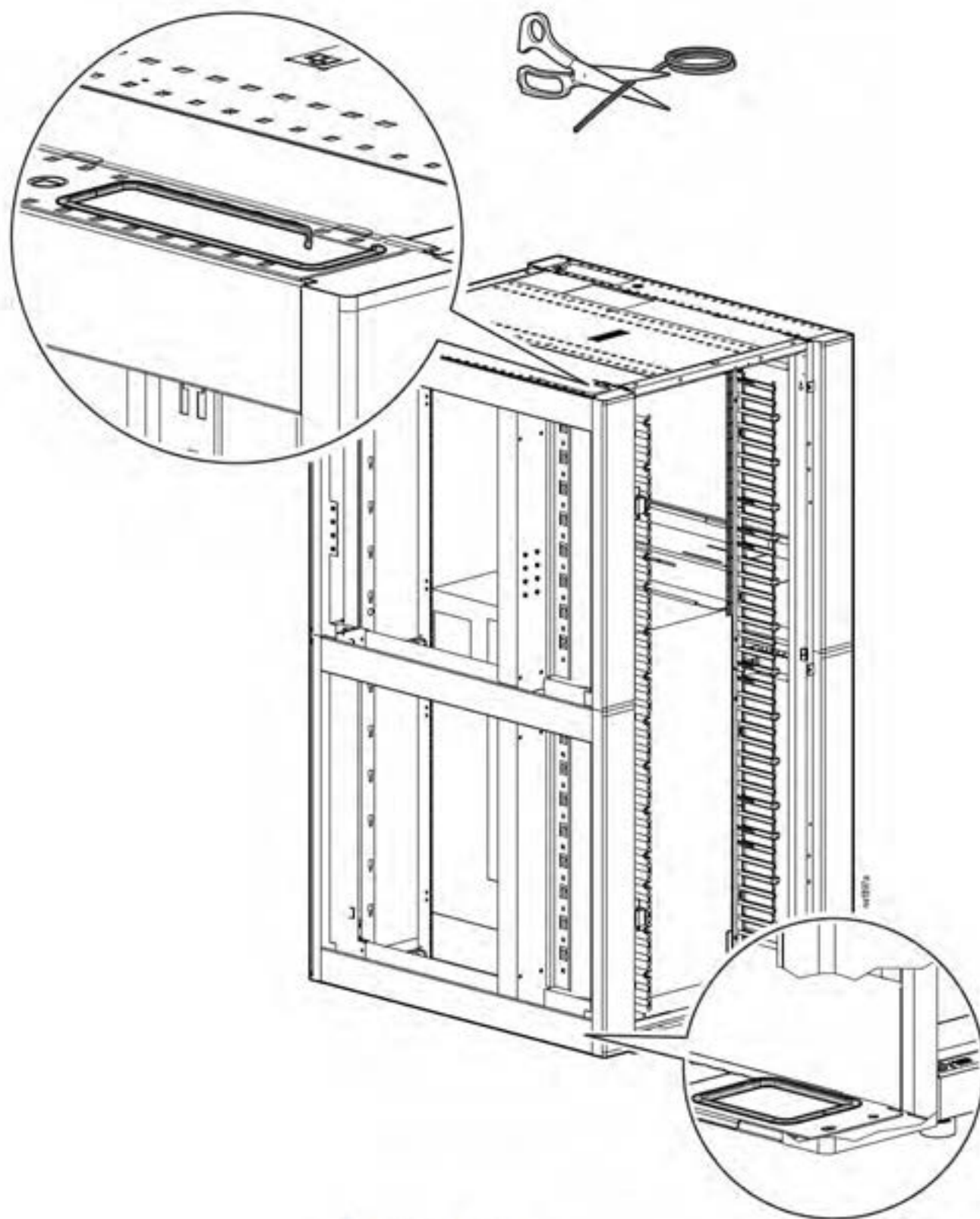


Front Right Side of Enclosure

9. Cut the one remaining foam gasket and install it on the horizontal baffle assembly.



10. Cut and install edge protection grommet in cable-routing areas as needed; for example, in the openings of the top covers and the bottom cover.
11. Reinstall the side panels and doors.



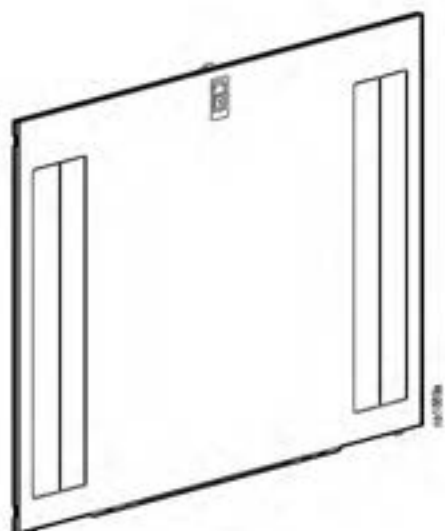
Front Left Side of Enclosure

# Accessories

## Split Feed-Through Side Panels (AR7313 and AR7314)

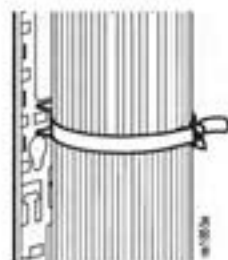
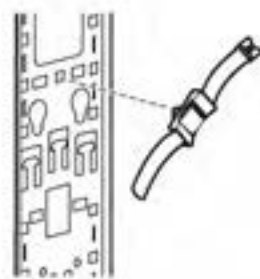
Allows cable pass-through to adjacent enclosures. Openings contain brushes to restrict airflow. The following side panels are available (each includes two side panels):

- 42 U 1200-mm Deep Split Feed-Through Side Panels (AR7313)
- 48 U 1200-mm Deep Split Feed-Through Side Panels (AR7314)



## Toolless Hook-and-Loop Cable Manager (AR8621)

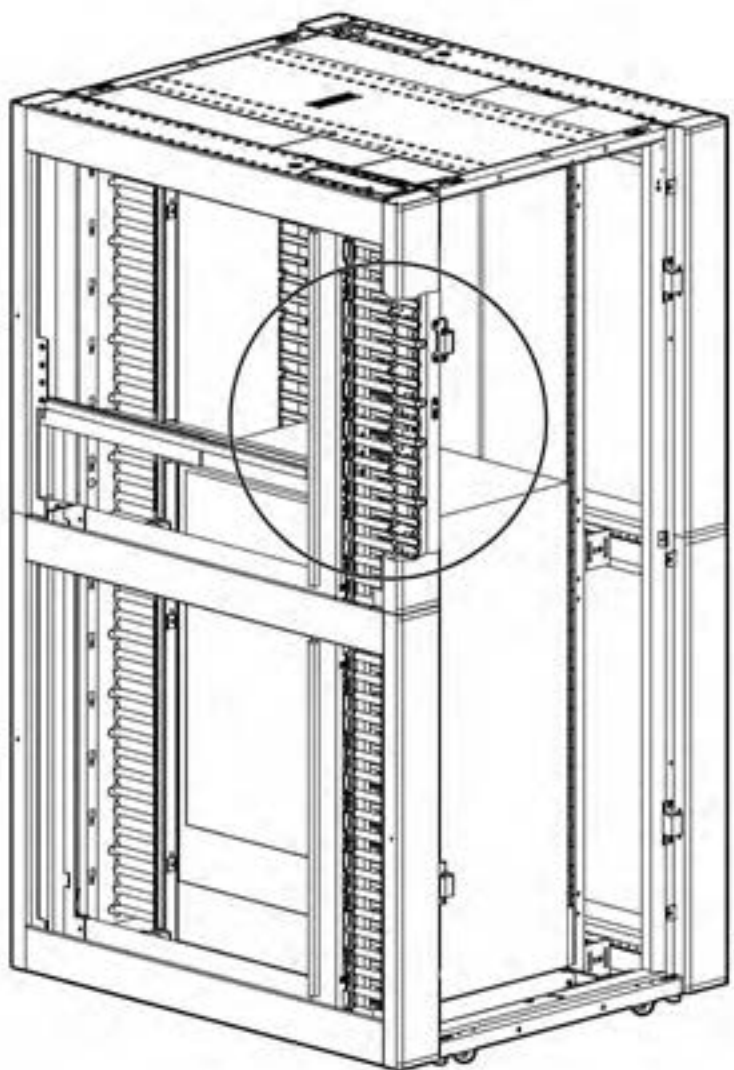
Includes ten 457-mm (18-in) cable managers and hook-and-loop black cable straps that install in the square mounting holes of vertical 0 U accessory channels or vertical mounting flanges.



## Vertical Cable Manager (AR7717)

Includes four pieces. Installs on the front and rear vertical mounting flanges and in the vertical 0 U accessory channels. The vertical cable manager has smooth plastic cable guides at 1 U increments that allow patch cords to enter and exit in an organized manner. (The NetShelter Networking Enclosures include four factory-installed vertical cable managers on the front vertical mounting flanges.)

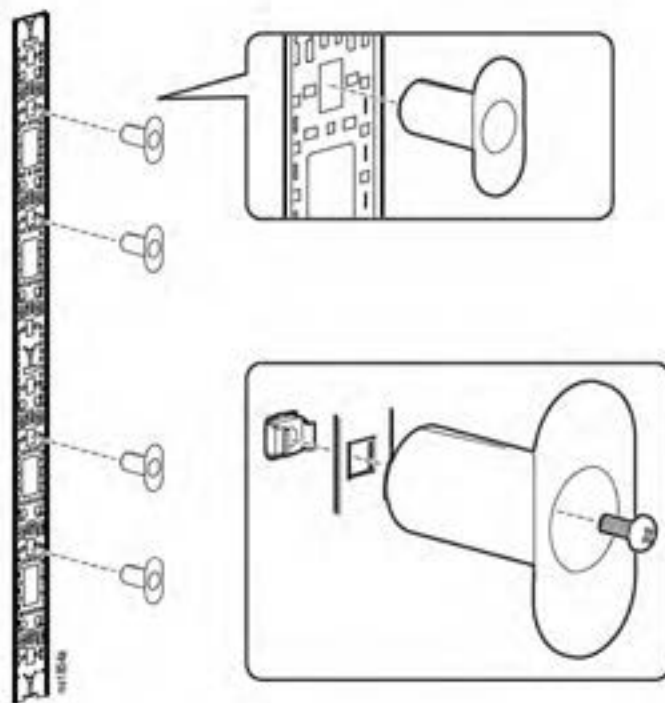
In addition to the above, with the NetShelter SX Side Airflow Solution you can install up to two vertical cable managers on each vertical baffle as shown.



Rear of Enclosure

### Fiber Organizer Spools (AR8444)

Includes four pieces. Can be mounted toollessly to a vertical 0 U accessory channel or to any 9.5 x 9.5 mm (0.375 x 0.375 in) square hole using a cage nut and a screw.



### 0 U, 8 Cable Rings, Vertical Cable Organizer (AR8442)

Includes two pieces. Eliminates cable stress by organizing cable layout within the rear channels of the enclosure. Uses 0 U space within the enclosure. Consists of two pieces of equal size. You can install both vertical cable organizers side by side in a vertical 0 U accessory channel or stack each piece to span the entire height of the enclosure.



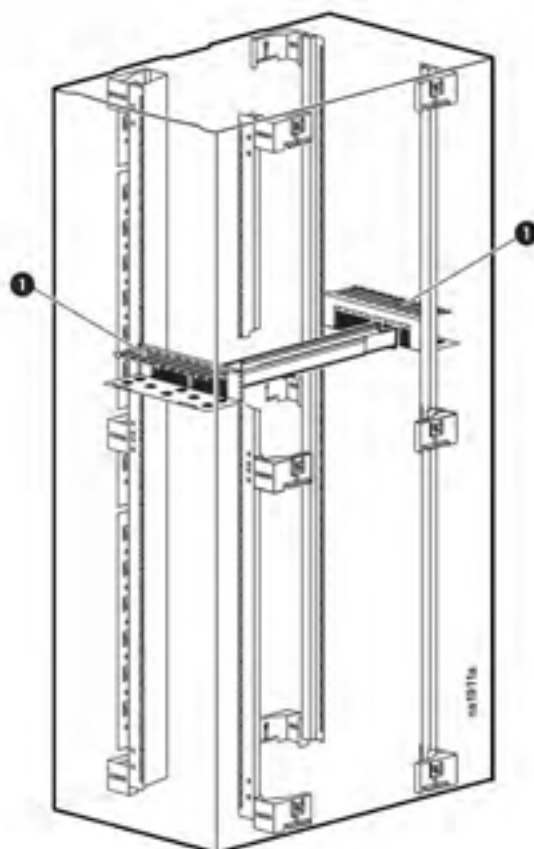
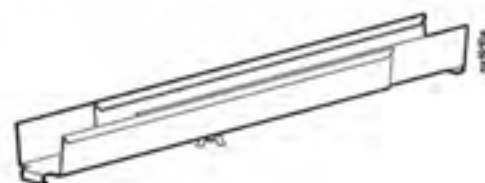
### 2-U, 6-in deep, Single-side Horizontal Cable Organizer with Cover (AR8603)

Route patch cables horizontally at the front of rear of a 19-in EIA enclosure. The cable manager has 152-mm (6-in) smooth plastic fingers and two pass-through openings to allow patch cords to enter and exit in an organized manner.



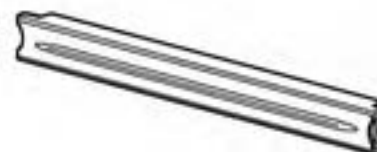
## Horizontal Cable Organizer Side Channel, 18- to 30-in Adjustment (AR8008BLK)

Cable management accessory to help eliminate cable stress and maintain a neat, organized cable layout within an enclosure or a rack. Installs between a front- and rear-mounted 2-U, 6-in deep horizontal cable organizer (AR8603) ❶. Adjusts from 457 to 762 mm (18 to 30 in).



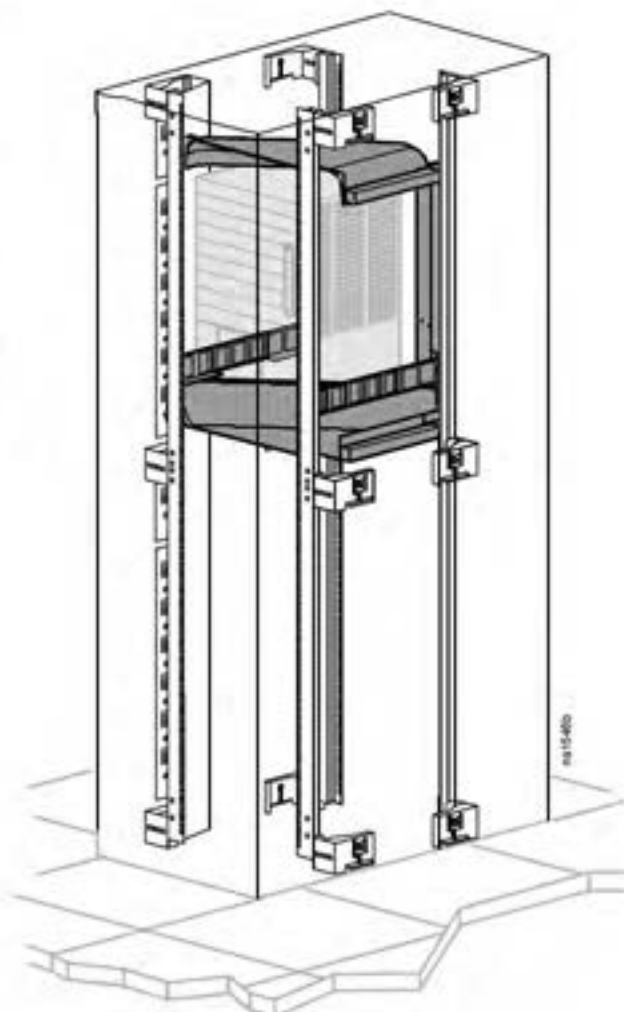
## Airflow Management Blanking Panel (AR8136BLK and AR8136BLK200)

Covers empty vertical enclosure space to maintain proper airflow. AR8136BLK includes ten pieces and AR8136BLK200 includes 200 pieces.



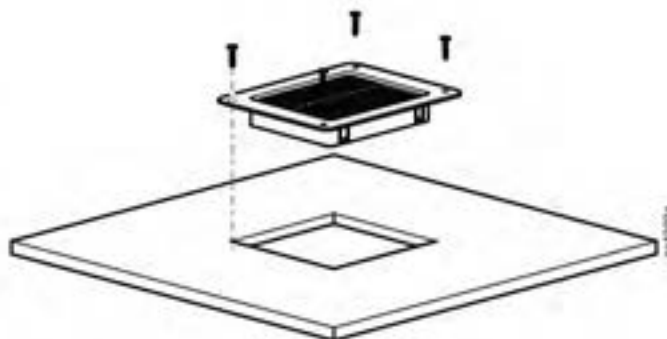
## Side Airflow Duct Kit (AR7715) for Catalyst and MDS series switches

The NetShelter Side Airflow Duct Kit is intended for use with Cisco Catalyst 6509, 6509-E, and 6513 Switches and Cisco MDS 9509 and 9513 Multilayer Switches. For networking switch applications, the Side Airflow Duct Kit allows for improved cable management solutions while maintaining adequate airflow and separation of hot and cold aisles to cool switches. The Side Airflow Duct Kit maintains separation of hot and cold aisles via ducts and baffle panels.



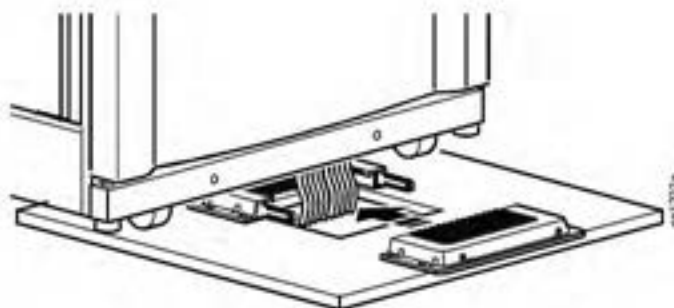
### **KoldLok® Integral Raised Floor Grommet (AR7720)**

Includes ten pieces. Improves cooling efficiency by preventing air recirculation and reducing bypass airflow.



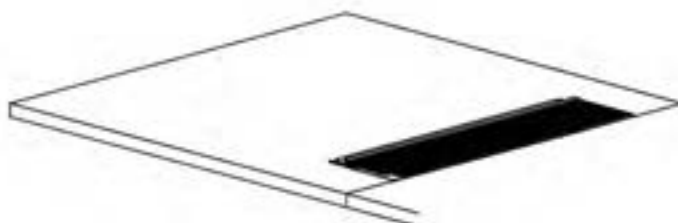
### **KoldLok® Surface Mount Raised Floor Grommet (AR7730)**

Includes ten pieces. Improves cooling efficiency by preventing air recirculation and reducing bypass airflow.



### **KoldLok® Extended Raised Floor Grommet (AR7740)**

Includes ten pieces. Improves cooling efficiency by preventing air recirculation and reducing bypass airflow.



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