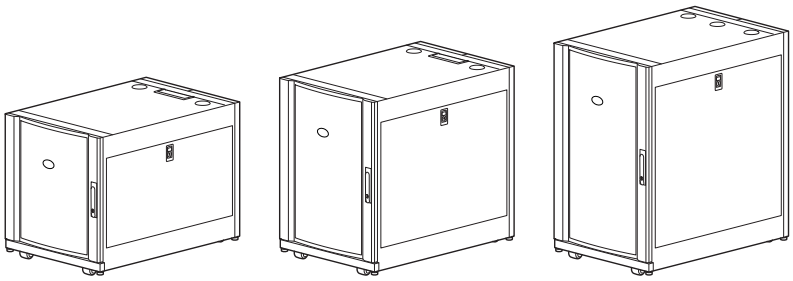
Installation and Customization

NetShelter SX 12U, 18U, and 24U Cabinets

AR3003/AR3003SP, AR3103/AR3103SP, AR3006/AR3006SP, AR3106/AR3106SP, AR3104/AR3104SP1

990-3206D-001
Release date: 3/2022



www.apc.com

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Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert the user to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

⚠DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

Failure to follow these instructions will result in death or serious injury.

⚠WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

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

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Always abide strictly by local laws and regulations in force in the place of installation.

Safety During Installation

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK

- The cabinet must be connected to the building Common Bonding Network (CBN).
- When installing the doors, reconnect all ground and other connection wires.

Failure to follow these instructions will result in death or serious injury.

⚠WARNING

TIP HAZARD

- The cabinet is easily tipped. Use extreme caution when unpacking or moving.
- Use at least two people to unpack and move the cabinet.
- When moving the cabinet on its casters, make sure the leveling feet are up and push the cabinet from the front or rear.
- It is recommended that you load 158 kg (350 lb) of equipment into the bottom of the cabinet for extra stability before moving the cabinet on its casters.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠WARNING

TIP HAZARD

- Lower the leveling feet before installing equipment.
- Install the heaviest equipment first and toward the bottom of the cabinet to prevent the cabinet from becoming top-heavy.
- Do not extend equipment on sliding rails until you have installed 158 kg (350 lb) of equipment into the bottom of the cabinet for stability, or until you have installed the stabilizer plate or bolt-down brackets. Do not extend more than one piece of equipment on sliding rails at a time.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Labels

Look for additional safety information affixed to the cabinet. See Move the Cabinet, page 11 for more information.

Introduction

The APC™ NetShelter™ SX 600-mm (23.6-in) wide, 12-U, 18-U, and 24-U cabinets are high-quality cabinets for storage of industry-standard (EIA-310), 19-in rack-mount hardware, which includes servers and voice, data, networking, internetworking, and power protection equipment.

This manual covers the following NetShelter SX cabinets:

Model	Cabinet mounting height	Cabinet depth	Cabinet mounting width	External cabinet width
AR3003/ AR3003SP	12 U	900 mm (35.43 in)	482 mm (18.98 in)	600 mm (23.62 in)
AR3103/ AR3103SP	12 U	1070 mm (42.13 in)		
AR3006/ AR3006SP	18 U	900 mm (35.43 in)		
AR3106/ AR3106SP	18 U	1070 mm (42.13 in)		
AR3104/ AR3104SP1	24 U	1070 mm (42.13 in)		

1U= 44.45 mm (1.75 in)

Unpack the Cabinet

Disclaimer

APC is not responsible for damage sustained during reshipment of this product.

Inspection

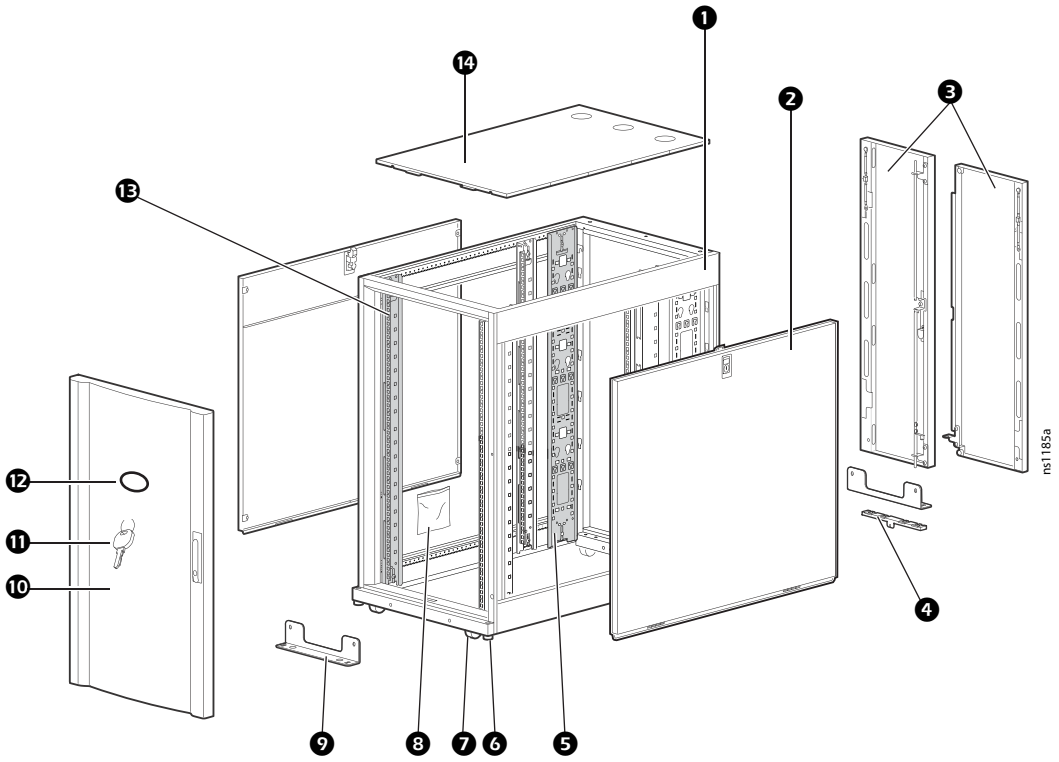
Inspect the packaging and contents for shipping damage. Make sure that all parts are accounted for. Report any damage immediately to the shipping agent. Report missing contents, damage, or other problems immediately to APC or your reseller.

Please Recycle


The shipping materials are recyclable. Save them for later use, or dispose of them appropriately.

Component Identification

Cabinet



❶	Cabinet frame	❽	Hardware bag
❷	Removable side panels with locks	❾	Bolt-down bracket
❸	Removable rear split door	❿	Removable and reversible front door
❹	Cable containment bracket (AR3104/ AR3104SP1 only)	⓫	Key for doors and side panels
❺	Adjustable vertical 0 U accessory channel	⓬	Nameplate (if equipped)
❻	Adjustable leveling feet	⓭	Vertical mounting flanges
❼	Casters	⓮	Removable roof

Hardware Bag



Plastic cup washers (60)



M6 x 16 PHillips slot screws (60)



M5 x 12 screws (4)



Cage nuts (60)



7-mm (0.28 in) hole plugs (4)

Tools (provided)



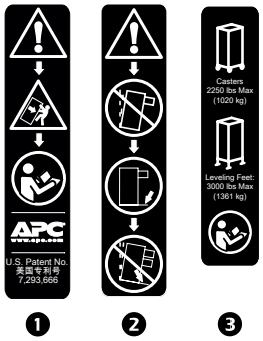
TORX ® T30/#2 Phillips tool (1)



Cage nut tool (1)

Cabinet Installation

Move the Cabinet



⚠WARNING

TIP HAZARD

- The cabinet is easily tipped. Use extreme caution when unpacking or moving.
- Use at least two people to unpack and move the cabinet.
- When moving the cabinet on its casters, make sure the leveling feet are up and push the cabinet from the front or rear.
- It is recommended that you load 158 kg (350 lb) of equipment into the bottom of the cabinet for extra stability before moving the cabinet on its casters.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Labels. The following labels can be found on the cabinet, and serve to communicate the following information:

Label ❶: Generic Tip Hazard

Label ❷: Extend Slide-Mounted Hardware One Piece at a Time. Do not extend loaded top-mounted sliding hardware unless the cabinet is secured to the floor.

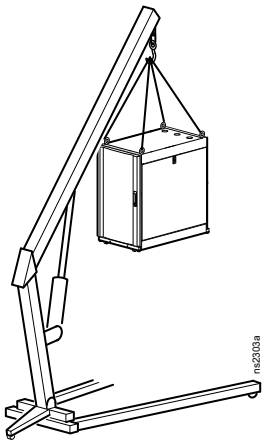
Casters. The cabinets can be loaded and moved on their casters as follows:

Cabinet Height	12 U	18 U	24 U
Maximum Load	272 kg (600 lb)	408 kg (900 lb)	1021 kg (2,250 lb)

With the leveling feet lowered, the static cabinets can be loaded as follows:

Cabinet Height	12 U	18 U	24 U
Maximum Load	272 kg (600 lb)	408 kg (900 lb)	1 361 kg (3,000 lb)

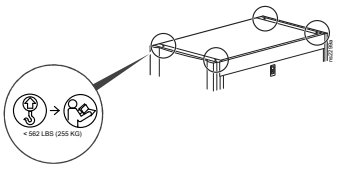
NOTE: Label ❸ to the left can be found on all cabinet models, but may differ from the actual weight rating due to testing restraints. Refer to this manual for the correct ratings.



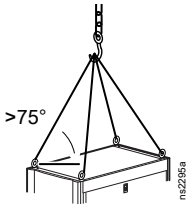
Eye bolts. The cabinet can be lifted by removing the hole plugs and attaching eye bolts (not included), to the top of the cabinet frame. Use rated M10 eye bolts. The maximum weight of installed equipment is as follows:

Cabinet Height	12 U	18 U	24 U
Maximum Load	272 kg (600 lb)	408 kg (900 lb)	567 kg (1,250 lb)

NOTE: This label indicates the weight capacity of individual frame lift points (255 kg/562 lb) as tested on the standardized cabinet frame. Testing restraints prevent the assembled cabinet from being certified for the same weight as the frame. Refer to the table above for actual eyebolt lifting capacities for each cabinet model.



NOTE: If using supplemental lifting hardware, ensure the cord length allows for a minimum of a 75° angle, as shown to the right.



Level the Cabinet

NOTE: The leveling feet at the corners of the equipment provide a stable base if the floor is uneven, but they cannot compensate for a badly sloped surface.

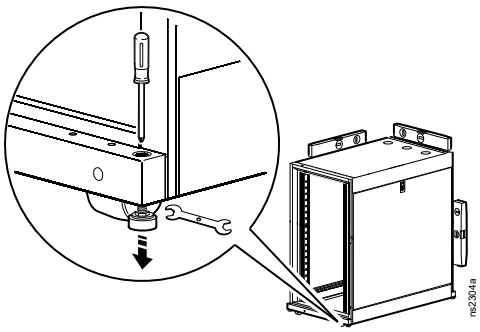
1. Ensure the cabinet is in its intended location. Remove the front and rear doors. See Remove the Doors, page 16 for instructions.

   NOTE: Before removing the front doors, unplug the ground wires and any other wire connections that may interfere with the removal of the doors.

2. Insert a Phillips head screwdriver into the screw above the leveling foot. Turn the screw clockwise to extend the leveling foot until it makes firm contact with the floor.

   NOTE:

   - This method works best with an empty, or near empty cabinet.
   - If loaded with equipment, a 13-mm, open-ended wrench can also be used to lower the leveling feet.
   - Door removal is not required if using the 13-mm, open-ended wrench.

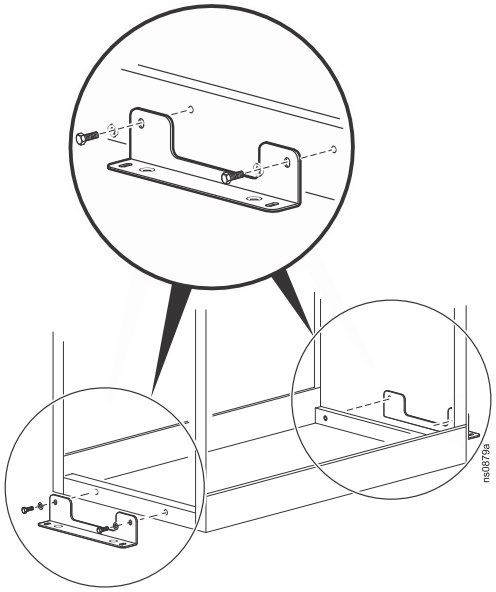


3. Using a level, adjust each foot until the cabinet is level and plumb.
4. Install the front and rear doors.

Secure the Cabinet

Brackets can be used to bolt the cabinet to the floor internally or externally for additional stabilization. See www.apc.com for bracket installation and further related information.

NOTE: Only use the bolt-down bracket or stabilization plate with the casters or leveling feet installed.



Ground the Cabinet

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK

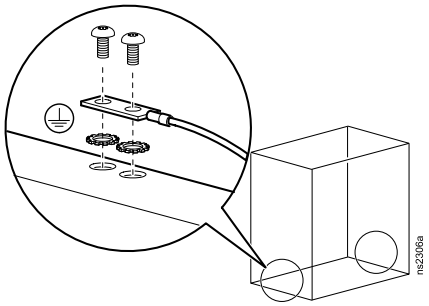
The cabinet must be connected to the building Common Bonding Network (CBN).

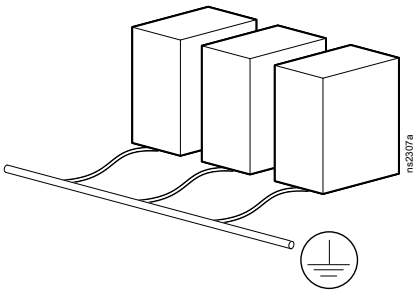
Failure to follow these instructions will result in death or serious injury.

The doors, side panels, and roof of the cabinet are grounded to the cabinet frame. The doors are grounded with quick-disconnect cables. The roof and side panels are inherently grounded through spring fingers.

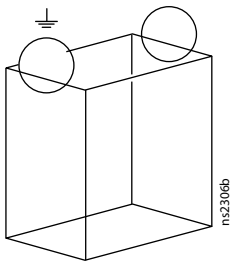
Each cabinet should be bonded directly to a common ground using one of the designated grounding locations (two M6 threaded inserts) at the bottom of the cabinet.

- Use a Common Bonding Network Jumper kit (for example, Listed [KDER] Panduit® RGCBNJ660PY or equivalent).
- Use paint-piercing washers between the ground terminal and the cabinet frame, or remove the paint on the frame under the ground terminals, per NEC NFPA 70 Article 250.12.
- Torque the screws to 6.9 N•m (60 lb-in).
- Do not ground one cabinet to another cabinet in a cascading style. Ground each cabinet directly to the building ground.



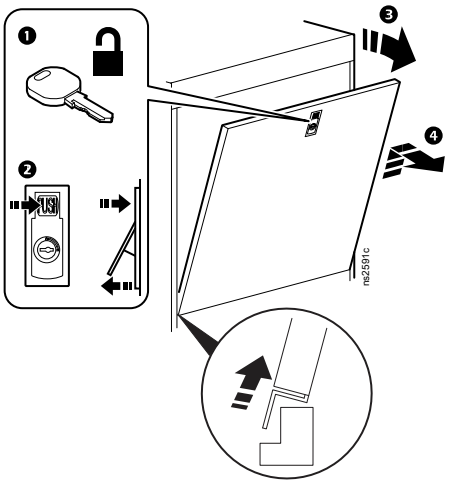


NOTE: If needed, additional functional grounding points are available at the top of the cabinet. Do not connect the building CBN to the these functional grounding points.

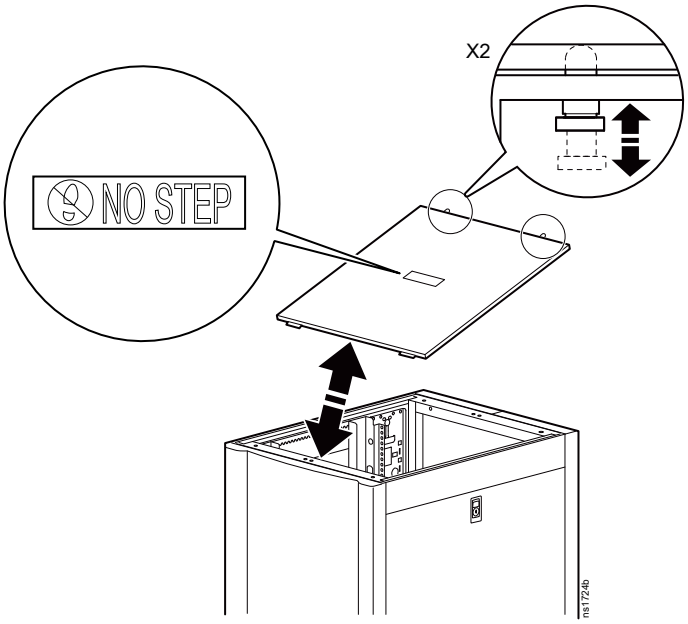


Side Panels, Roof, and Doors

Side Panels

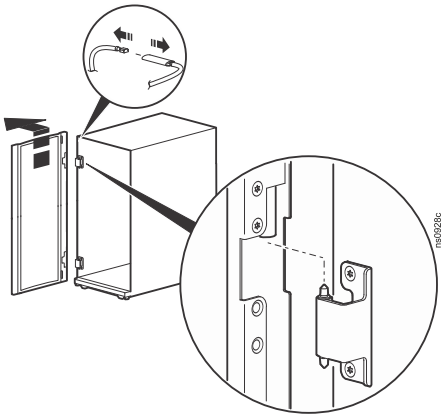


Roof



Doors

Remove the Doors



1. Unlock the cabinet front door handle and open the door.
2. Disconnect the ground wire and any other wire connections that may interfere with the removal of the doors.
3. The hinges come apart by lifting upward and outward. Slowly lift and pull the door from the cabinet until the hinge pins on the door are free of the hinges on the cabinet frame.

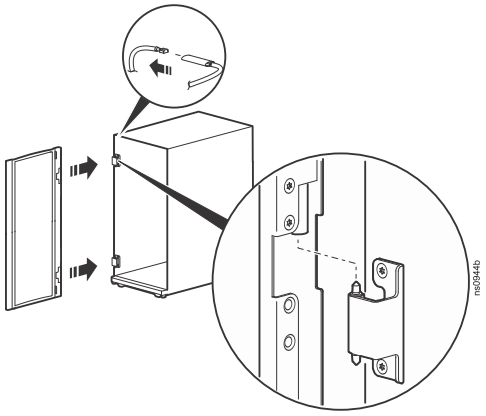
Install the Doors

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK

When installing the doors, reconnect all ground and other connection wires.

Failure to follow these instructions will result in death or serious injury.



1. The doors self-align on hinge pins when properly installed. With the door at a 90 degree angle to the front of the cabinet, position the door over the hinge pins.
2. Slowly lower the door into the cabinet frame ensuring that the door hinges correctly align to the cabinet frame hinges.
3. Connect the ground wire and any other wire connections. Make sure the door opens and closes properly.

Reverse the Front Door

⚠⚠DANGER

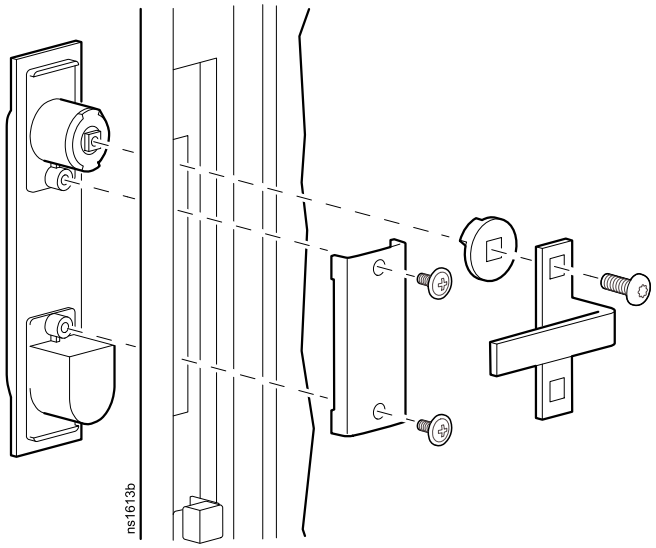
HAZARD OF ELECTRIC SHOCK

When installing the doors, reconnect all ground and other connection wires.

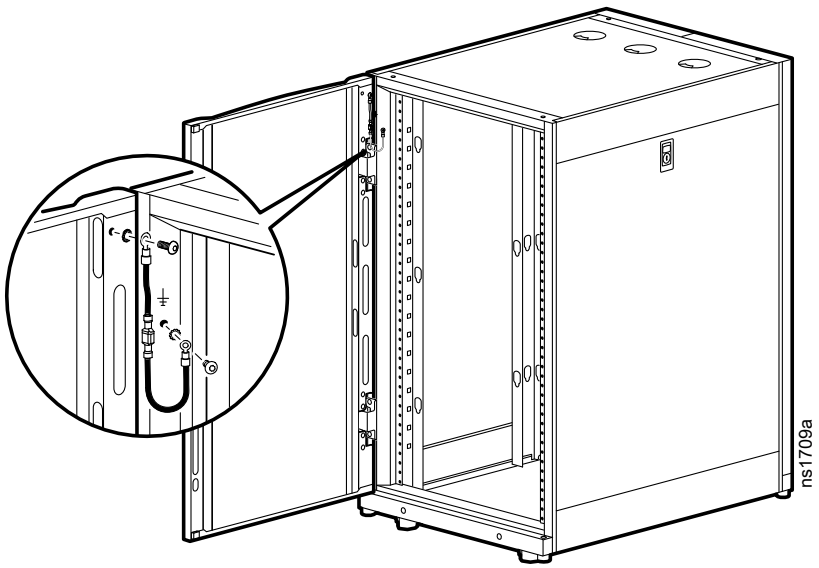
Failure to follow these instructions will result in death or serious injury.

The front door can be reversed so that the door opens in the other direction. This procedure assumes that initially, when facing the cabinet, the hinges are on the left and the door is opening from right.

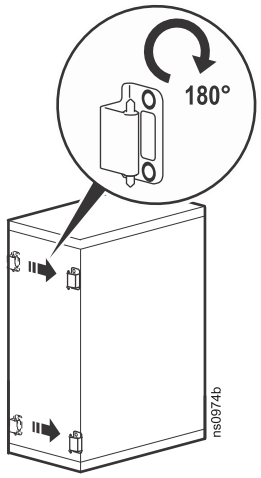
1. Remove the handle by removing the screw-plate. Pull the handle from the door.



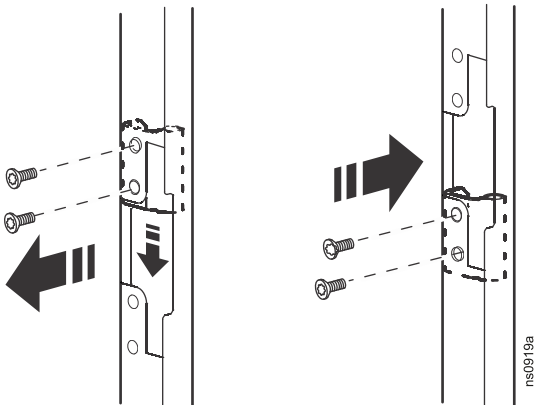
2. Disconnect the ground wire, and any other wire connections. Remove the door from the frame. See Remove the Doors, page 16 for more information.



3. Locate the upper hinge on the cabinet frame. Remove the two screws holding the hinge in place. Install the hinge onto the other side of the cabinet frame. Repeat this step for the lower hinge.

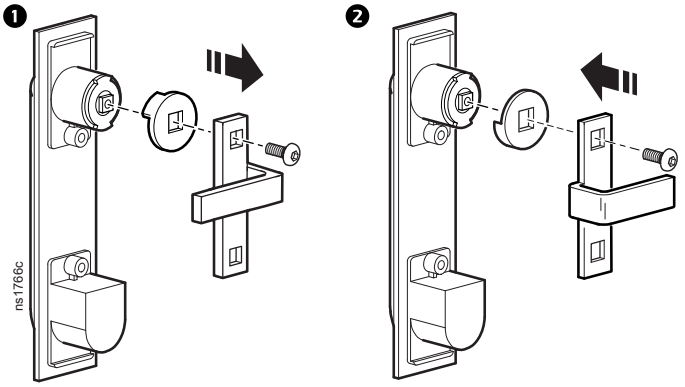


4. Remove the hinges from the door and install them using the set of holes directly below where they were originally installed.

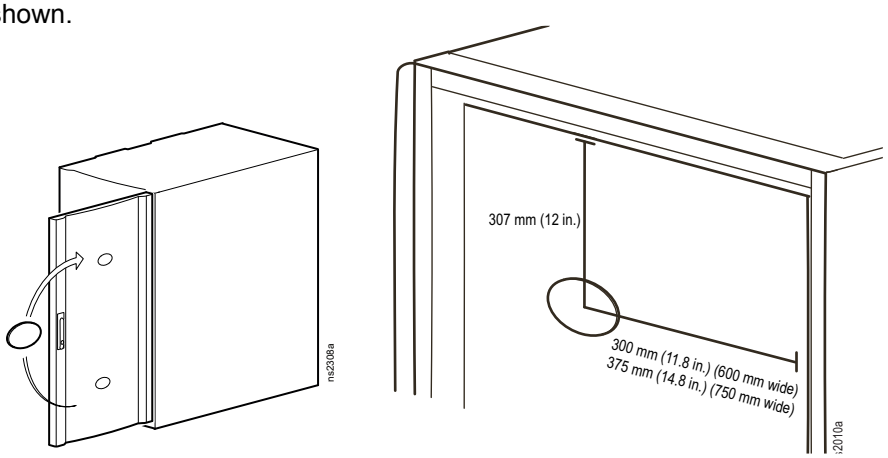


5. Rotate the door 180 degrees. Install the door to the hinges now on the reverse side of the cabinet frame. See Install the Doors, page 16 for instructions. Connect the ground wire and any other wire connections previously disconnected.

6. Locate the lock handle. Remove the cam screw, cam washer, and cam.❶ Rotate the cam washer 90 degrees, and the latch 180 degrees. Install the handle on the door.❷



7. Remove the nameplate (if equipped) from the door. Install the nameplate as shown.



Equipment Installation

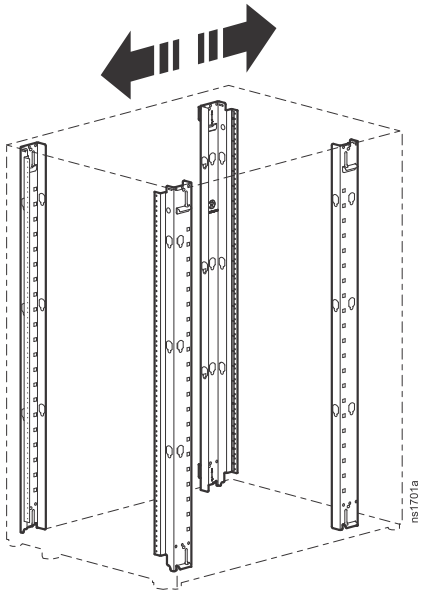
NetShelter SX cabinets are intended for use with Listed equipment. If you install un-Listed equipment, you should evaluate the safety of your configuration.

Vertical Mounting Flanges

Vertical mounting flanges come factory-installed at the proper location for use with rack-mountable equipment:

- 737 mm (29 in) for 1070-mm racks
- 641 mm (25 in) for 900-mm racks

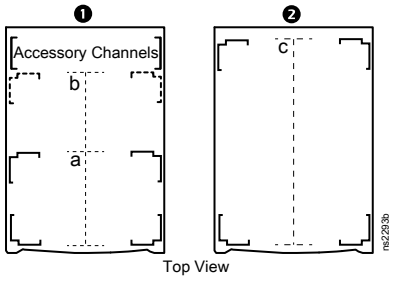
The mounting flanges are adjustable towards the front or the rear of the cabinet to accommodate different rails or equipment with other depths.



Position the Vertical Mounting Flanges

Configuration ❶: The Accessory Channel is installed. The Vertical Mounting Flanges can be installed a minimum distance of (a) and can extend as far as (b).

Configuration ❷: The Accessory Channel is removed. The Vertical Mounting Flanges can extend as far as (c).



Models	Cabinet Depth (D)	a	b	c
AR3003/ AR3003SP	900 mm (35.43 in)	191 mm (7.5 in)	654 mm (25.75 in)	756 mm (29.75 in)
AR3103/ AR3103SP	1070 mm (42.13 in)		781 mm (30.75 in)	921 mm (36.25 in)
AR3006/ AR3006SP	900 mm (35.43 in)		654 mm (25.75 in)	756 mm (29.75 in)
AR3106/ AR3106SP	1070 mm (42.13 in)		781 mm (30.75 in)	921 mm (36.25 in)
AR3104/ AR3104SP1	1070 mm (42.13 in)		781 mm (30.75 in)	921 mm (36.25 in)

Adjust the Vertical Mounting Flanges

⚠WARNING

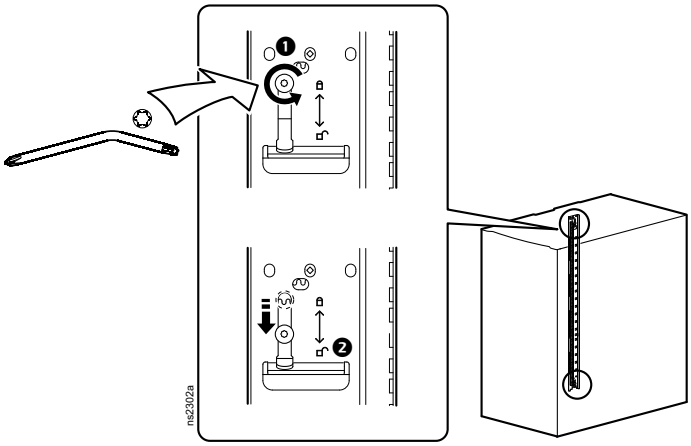
FALLING EQUIPMENT HAZARD

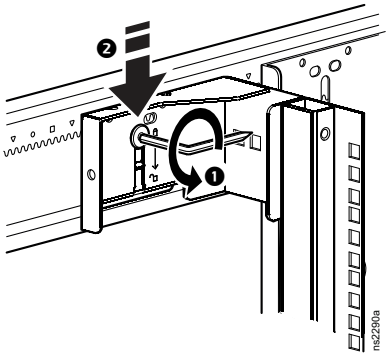
Remove all equipment installed on the vertical mounting flanges before performing any adjustments.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

1. Use the provided TORX T30 tool to loosen the top and bottom TORX screws ❶ holding the vertical mounting flange in place.The brackets held in place by the TORX screws will now be loose.

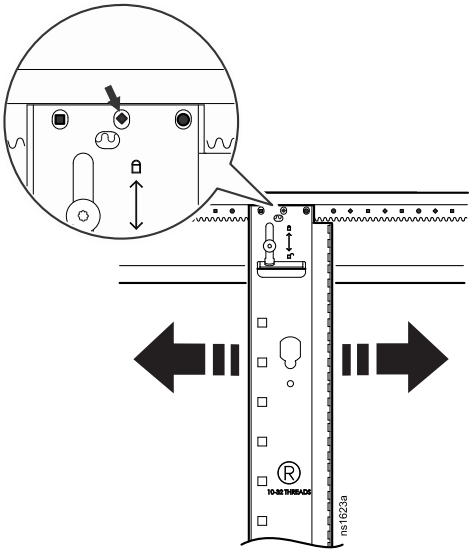
   Move both brackets to the designated unlocked position .❷

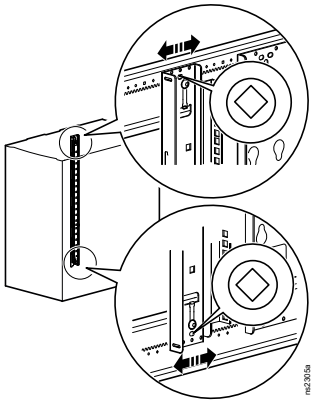




2. Move the mounting flange to the desired location. Vertical mounting flanges adjust in 6 mm (1/4 in) increments.

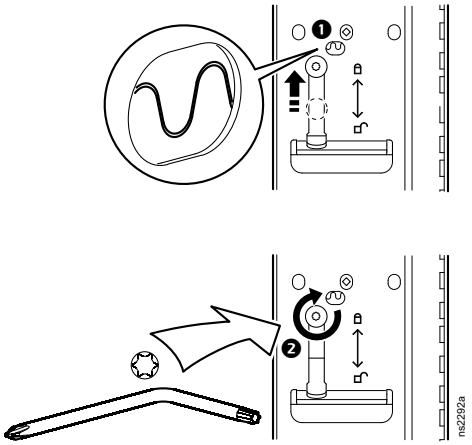
   To align the vertical mounting flange, note the symbol (for example, a diamond). Only one symbol will be visible. In the factory standard position, a circle symbol is visible. Make sure the same symbol is visible through the corresponding hole at both the top and the bottom of the flange.





3. When the vertical mounting flange is in the desired location at the top and bottom, raise the flat bracket to the lock position. The teeth in the bracket will engage fully with the teeth in the side brace.❶

   Tighten the TORX screws.❷



Install Equipment

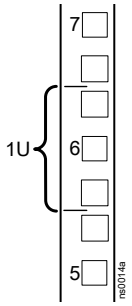
⚠WARNING

TIP HAZARD

- Lower the leveling feet before installing equipment.
- Install the heaviest equipment first and toward the bottom of the cabinet to prevent the cabinet from becoming top-heavy.
- Do not extend equipment on sliding rails until you have installed 158 kg (350 lb) of equipment into the bottom of the cabinet for stability, or until you have installed the stabilizer plate or bolt-down brackets. Do not extend more than one piece of equipment on sliding rails at a time.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

1. Review the equipment manufacturer's installation instructions.
2. Locate the top and bottom U-space on the vertical mounting rails. Every third hole on the mounting rails is numbered to indicate the middle of a U-space.
3. Install the cage nuts on the interior of the vertical mounting rail; then install the equipment. (To remove a cage nut, squeeze the sides to release it from the square hole.)



Install a Cage Nut

If needed, APC offers a cage nut hardware kit (AR8100) for use with square holes.

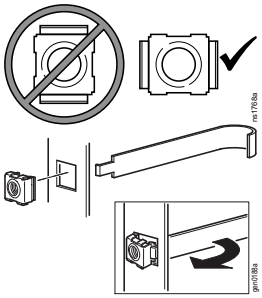
⚠CAUTION

FALLING EQUIPMENT HAZARD

Install cage nuts horizontally, with the tabs engaging the left and right sides of the square hole. Do NOT install cage nuts vertically with the tabs engaging the top and bottom of the square hole.

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

1. Install the cage nuts on the interior of the vertical mounting rails. Insert the cage nut into the square hole by hooking one ear of the cage nut through the far side of the hole.



2. Place the cage nut tool on the other side of the cage nut and pull to snap it into position.

Remove a Cage Nut

1. Remove any attached screw.
2. Grasp the cage nut and squeeze the sides to release it from the square hole.

Cable Management

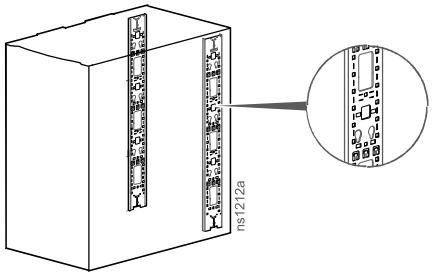
The NetShelter SX cabinet has multiple cable access openings, including on the roof, sides, and bottom. Route, secure, and organize cables using these openings. In addition, two rear vertical 0-U cable organizers, or accessory channels, are included with the cabinet. Further cable management accessories are available. See www.apc.com or contact your APC re-seller for more information.

Accessory Channel

The accessory channels provide toolless mounting capabilities for Rack Power Distribution Units and cable management accessories.

There are two accessory channels included with the cabinet. The factory-default position for the accessory channels is in the rear of the cabinet.

The channels also provide tie-off locations for cables, as well as other specific holes for managing cables with many NetShelter brackets, fasteners, and toolless mounting equipment.



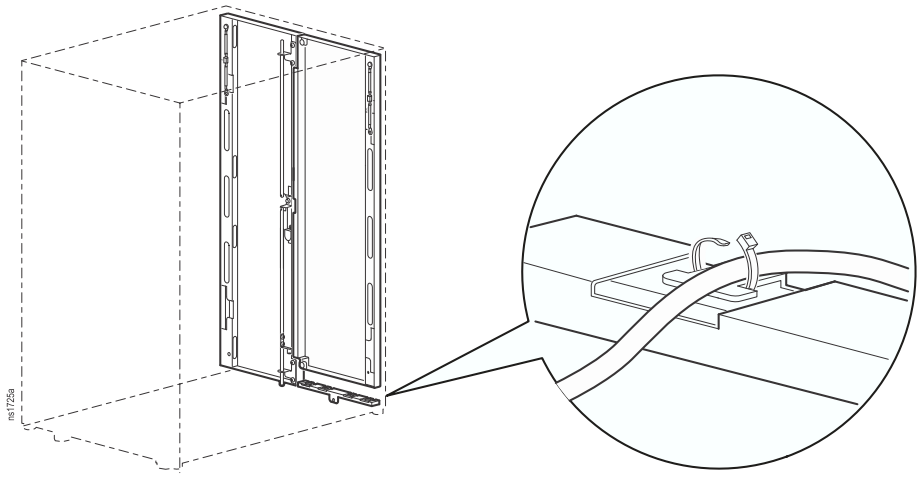
Similar to the mounting flanges, the accessory channel can be moved anywhere along the side braces. See Vertical Mounting Flanges, page 20 for more information.

NOTE: If needed, the accessory channels can be removed. Additional vertical 0-U accessory channels are available for order.

Rear-door Cable-containment Bracket

(AR3104/AR3104SP1 only)

The rear door cable containment bracket is installed within the cabinet under the left hand door. The bracket has 4 lobes for attaching cables with hook-and-loop fasteners (provided) and cable ties (not provided).



Specifications

Measurement	AR3003/AR3003SP	AR3103/AR3103SP	AR3006/AR3006SP	AR3106/AR3106SP	AR3104/ AR3104SP1
Height	658 mm (25.91 in)	658 mm (25.91 in)	925 mm (36.41 in)	925 mm (36.41 in)	1199 mm (47.20 in)
Width	600 mm (23.62 in)				
Depth	900 mm (35.43 in)	1070 mm (42.13 in)	900 mm (35.43 in)	1070 mm (42.13 in)	1070 mm (42.13 in)
Net Weight	54 kg (119 lb)	59 kg (130 lb)	67 kg (148 lb)	72 kg (159 lb)	89 kg (196 lb)
Total open area (front door)	178 727 mm^2 (277.03 in^2)	178 727 mm^2 (277.03 in^2)	262 212 mm^2 (406.43 in^2)	262 212 mm^2 (406.43 in^2)	345 808 mm^2 (536.00 in^2)
Total open area (rear door)	199 552 mm^2 (309.31 in^2)	199 552 mm^2 (309.31 in^2)	293 917 mm^2 (455.57 in^2)	293 917 mm^2 (455.57 in^2)	375 870 mm^2 (582.60 in^2)
Open area per U (front door)	14 894 mm^2 (23.09 in^2)	14 894 mm^2 (23.09 in^2)	14 567 mm^2 (22.58 in^2)	14 567 mm^2 (22.58 in^2)	14 406 mm^2 (22.33 in^2)
Open area per U (rear door)	16 629 mm^2 (25.78 in^2)	16 629 mm^2 (25.78 in^2)	16 329 mm^2 (25.31 in^2)	163 29 mm^2 (25.31 in^2)	15 658 mm^2 (24.27 in^2)
Percent open (front)	68%	68%	69%	69%	67%
Percent open (rear)	76%	76%	78%	78%	73%
Clearance (for wiring between front door and vertical rail)	60 mm (2.35 in)	61 mm (2.40 in)	60 mm (2.35 in)	61 mm (2.40 in)	61 mm (2.40 in)
Weight rating: static load*	272 kg (600 lb)	272 kg (600 lb)	408 kg (900 lb)	408 kg (900 lb)	1 361 kg (3,000 lb)
Weight rating: rolling load	272 kg (600 lb)	272 kg (600 lb)	408 kg (900 lb)	408 kg (900 lb)	1021 kg (2,250 lb)
Weight rating: lifting load**	272 kg (600 lb)	272 kg (600 lb)	408 kg (900 lb)	408 kg (900 lb)	567 kg (1,250 lb)
Weight rating: shipping load***	272 kg (600 lb)	272 kg (600 lb)	408 kg (900 lb)	408 kg (900 lb)	567 kg (1,250 lb)

*Lower the leveling feet if the static weight is greater than 1020.58 kg (2,250 lb).

**Use rated M10 eye bolts to lift the cabinet. See Move the Cabinet, page 11 for more information.

***Applies only to cabinets with Shock Packaging (AR3003SP, AR3103SP, AR3006SP, AR3106SP, AR3104SP1)

NOTE: Shock packaging must be used if the rack is being reshipped with equipment installed. See the NetShelter SX product family page at www.apc.com for details on cabinets with shock packaging.

Five-year Factory Warranty

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