Installation and Customization

NetShelter™ HS Cabinet

AR9300SP

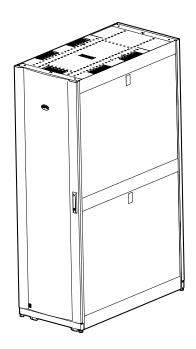
AR9387SP

AR9307SP

AR9180SP

990-5893-001

Publication Date: 8/2017





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Table of Contents

Important Safety Information	1
Introduction	2
Unpack the Cabinet	3
Disclaimer	
Inspection	
Please Recycle	3
Labels	3
Component Identification	4
Cabinet	4
Hardware	5
Tools provided	5
Cabinet Installation	6
Move the Cabinet	6
Level the Equipment	7
Join the Cabinets	7
Secure the Cabinet	8
Ground the Cabinet	9
Install Side Panels, Roof and Doors	10
Side Panels	10
Roof	10
Door Removal	
Door Installation	
Reverse the Front Door	12
Equipment Installation	14
Adjust the Vertical Mounting Flanges	14
Position the Vertical Mounting FlangesVertical Mounting Flange Adjustment	
Install the Equipment	16
To install rack-mount equipment in the cabinet:	16
Remove the Cable Cutout Covers	
Cable Management	18
Accessory Channels	
Adjust the Accessory Channels	19
Specifications	20
Dimensions	20
Air Flow*	

_imited Factory Warranty	21
Terms of Warranty	
Non-transferable Warranty	
Exclusions	
Warranty Claims	

Important Safety Information

Read the instructions carefully to become familiar with the equipment before trying to install, operate, service or maintain it. The following 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 label 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 you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

A DANGER

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

WARNING

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

A CAUTION

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

CAUTION

CAUTION, used without the safety alert symbol, indicates a potentially hazardous situation which, if not avoided, **can result in** equipment damage.

NOTICE

NOTICE addresses practices not related to physical injury including certain environmental hazards, potential damage or loss of data.

Introduction

The Schneider Electric NetShelter HS cabinets are high-quality cabinets for storage of industry-standard (EIA/ECA-310), 483 mm (19 in.) rack-mount hardware, which includes servers and voice, data, networking, internetworking, and power protection equipment.

These cabinets are available on 600 mm (23.6 in.) and 800 mm (31.5 in.) widths. Optional vertical mounting flanges are available for the 800 mm (31.5 in.) cabinet to accommodate 23 in. EIA / ECA telecommunications equipment.

You must purchase a ramp (part AR9000RAMP) to unload the cabinet.

Unpack the Cabinet

WARNING

TIP HAZARD

- This cabinet is easily tipped. Use extreme caution when unpacking or moving.
- At least four people are required to unpack and move the cabinet.
- Before moving the cabinet on its casters, load 158 kg (348 lbs) of equipment into the bottom of the cabinet for extra stability.
- · When moving the cabinet on its casters:
- Make sure the leveling feet are up.
- Ensure that movers are positioned at the sides of the cabinet and that no people or objects are in the path of the cabinet.
- Push the cabinet only forward or backward. Never push the cabinet sideways.

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

WARNING

HEAVY EQUIPMENT HAZARD

- Verify that the installation site is structurally capable of supporting the combined weights of the cabinet and the static load (see "Specifications" on page 20).
- · Do not use eye bolts or other means to lift the cabinet.

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

See the Unpacking Shock Packaging guide included with your cabinet for instructions.

Disclaimer

Schneider Electric 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 Schneider Electric or your reseller.

Please Recycle

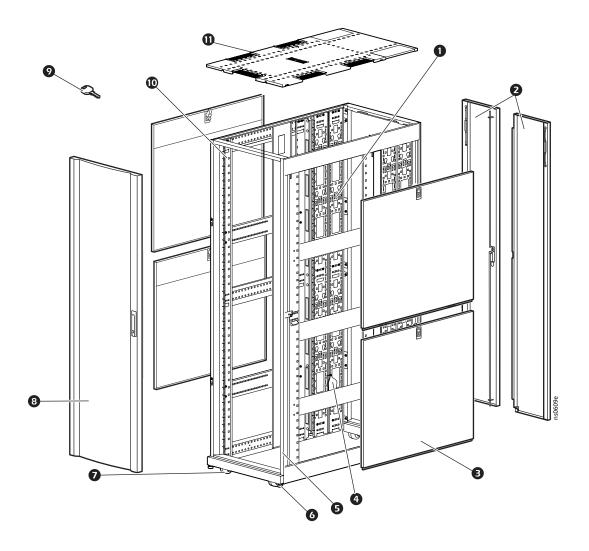
The shipping materials are recyclable. Save them for later use, or dispose of them appropriately.

Labels

Look for additional safety information affixed to the cabinet. See "Labels" on page 6 for more information.

Component Identification

Cabinet



- Adjustable vertical 0U accessory channel*
- Removable rear split doors
- Removable side panel with lock
- 4 Hardware bag (see page 5)
- Cabinet frame
- Adjustable leveling feet

- Casters
- Removable and reversible front door
- Key for doors and side panels
- Vertical mounting flanges
- Roof

^{* 1200} mm (47.24 in.) deep cabinets include four vertical 0U Accessory Channels.

Hardware











Plastic cup washer (60)

M6 x 16 Phillips slot screw (60)

M5 x 12 screw (4) Cage nut (60)

7 mm (0.28 in.) hole plug (4)

Tools provided

Cage nut tool (1)

Cabinet Installation

Move the Cabinet

WARNING

TIP HAZARD

- This cabinet is easily tipped. Use extreme caution when unpacking or moving.
- · At least four people are required to unpack and move the cabinet.
- Before moving the cabinet on its casters, load 158 kg (348 lbs) of equipment into the bottom of the cabinet for extra stability.
- · When moving the cabinet on its casters:
- Make sure the leveling feet are up.
- Ensure that movers are positioned at the sides of the cabinet and that no people or objects are in the path of the cabinet.
- Push the cabinet only forward or backward. Never push the cabinet sideways.

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

WARNING

HEAVY EQUIPMENT HAZARD

- Verify that the installation site is structurally capable of supporting the combined weights of the cabinet and the static load (see "Specifications" on page 20).
- · Do not use eye bolts or other means to lift the cabinet.

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 1: Generic Tip Hazard

Label 2: Extend Slide-Mounted Hardware One Piece at a Time

Casters. The cabinet can be moved on its casters with up to 1588 kg (3500 lbs) of equipment installed. Once in place, lower the leveling feet. With the leveling feet lowered, the static cabinet can be loaded to 1928 kg (4250 lbs) of equipment.

NOTE: Some labels on cabinet indicate caster related information. See label **3** Weight Thresholds for Leveling Feet and Casters.











Level the Equipment

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

Ensure the cabinet is in its intended location. Remove the front and rear doors.

See "Door Removal" on page 11 for instruction.

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

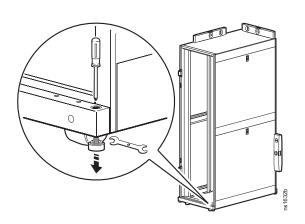
Insert a T25 TORX driver into the screw above the leveling foot. Turn the screw clockwise to extend the leveling foot until it makes firm contact with the floor. **NOTE:** This method works best with an empty, or near empty, cabinet.

NOTICE

- A13 mm open ended wrench can also be used to lower the leveling feet if the cabinet is loaded with equipment.
- Door removal is not required if using the 13 mm open-ended wrench.

Adjust each foot and, using a level, adjust the feet until the cabinet is level and plumb.

Do not install the doors until after the cabinet is joined to others in the row



Join the Cabinets

Join cabinets with the provided brackets to provide alignment and added stability. Cabinets may be joined with or without the side panels installed.

A WARNING

TIP HAZARD

Joining cabinets provides limited stability to the cabinets. Secure the cabinet to the floor before installing equipment.

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

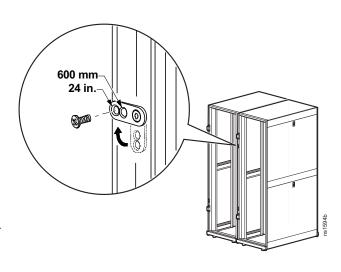
If installed, remove the front and rear doors. See "Door Removal" on page 11 for instructions.

Choose between 24 in. centers or 600 mm centers (see the detail view below).

Align the cabinets and locate the joining brackets. There are two brackets on the front and two brackets on the back of each cabinet.

Cabinets are joined using a M5 x 12 countersunk screw, provided in the hardware bag. Using the Phillips head end of the provided tool or a similar tool, insert the screw into the designated hole and tighten.

Install the doors. See "Door Removal" on page 11 for instructions.



Secure the Cabinet

WARNING

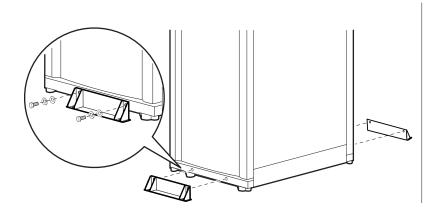
TIP HAZARD

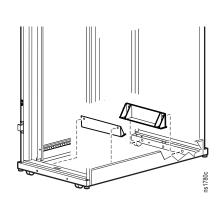
Secure the cabinet to the floor before installing equipment.

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

To secure the cabinet to the floor, use fastener locations on the outside or inside of the cabinet, and choose from the accessories shown below (not included).

Accessory	Part Number	Description	
Bolt-down kit	AR7701	Attaches to cabinet and floor internally or externally to provide additional stability without blocking cable access. Includes 4 brackets per unit.	
NetShelter SX High Seismic Region & OSHPD Bolt Down Kit	AR7701A-S	Attaches to cabinet and floor internally or externally to provide additional stability. Includes four brackets per unit.	
NetShelter SX Stabilizer Plate	AR7700	Attaches externally to the cabinet and floor to provide additional stability. Includes one plate per unit.	





Ground the Cabinet

A A DANGER

HAZARD OF ELECTRIC SHOCK

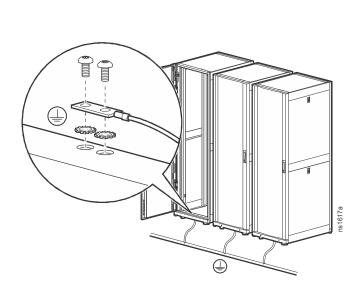
Connection of the cabinet to building Common Bonding Network (CBN) is required.

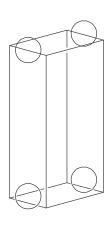
Failure to follow these instructions will result in death or serious injury.

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

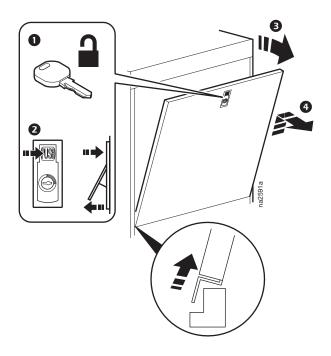
Bonding Locations on the Cabinet



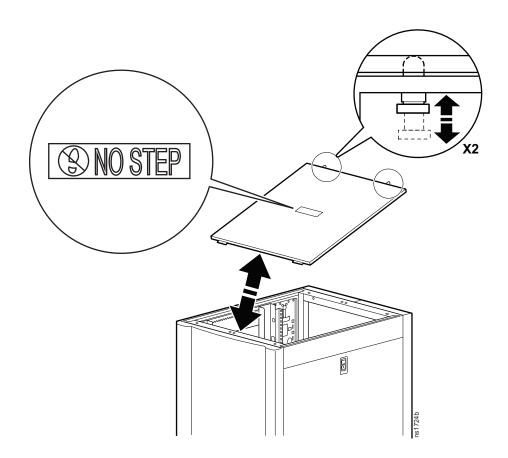


Install Side Panels, Roof and Doors

Side Panels

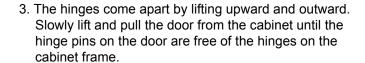


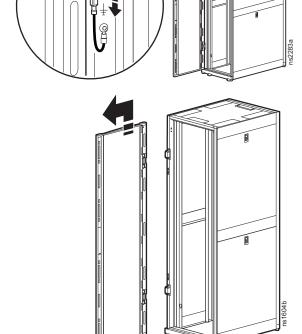
Roof



Door Removal

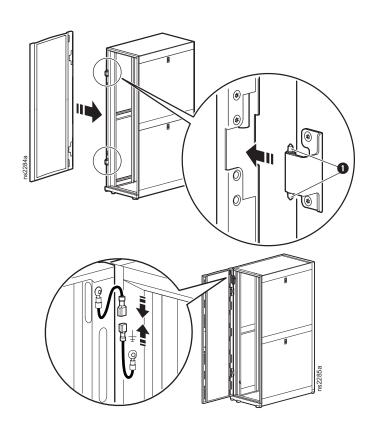
- 1. Unlock the cabinet front door handle and open the door.
- 2. Disconnect the ground wire and any other wire connections that may interfere with the removal of the doors.





Door Installation

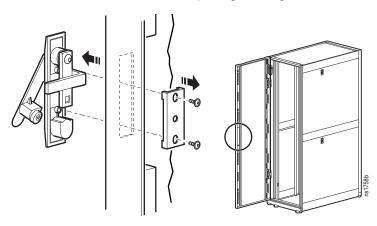
- The doors self-align on hinge pins when properly installed. With the door at a 90 degree angle to the front of the cabinet, position the door over the hinge pins ①.
- 2. Slowly lower the door into the cabinet frame; ensure that the door hinges correctly align to the cabinet frame hinges.
- 3. Connect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



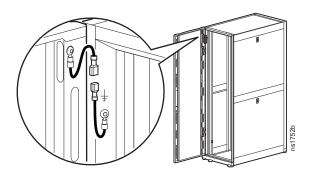
Reverse the Front Door

NOTE: 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.

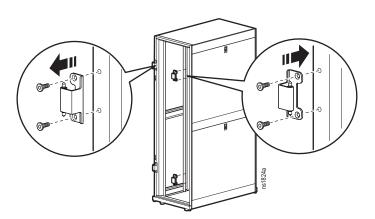
1. Remove the handle by removing the screw-plate. Pull the handle from the door.



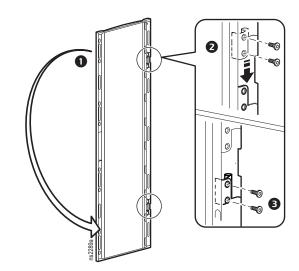
2. Disconnect the ground wire, and any other wire connections. Remove the door from the frame. See "Door Removal" on page 11 for more information.



 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.

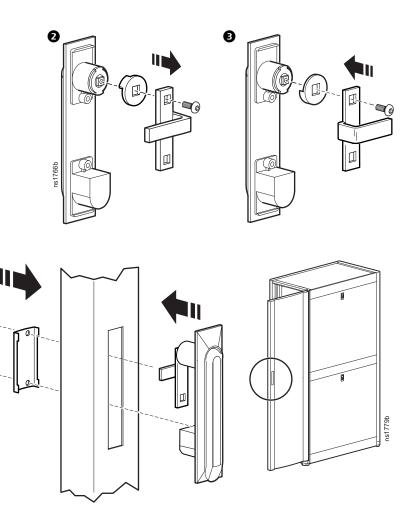


- 4. Rotate the door **①**. Remove the hinges **②** from the door, and install them to the alternate hole location **③**. The hinges on door should now align with the hinges on the cabinet.
- Install the door to the hinges now on the reverse side of the cabinet frame. See "Door Removal" on page 11 for instruction. Connect the ground wire and any other wire connections previously disconnected.



6. Locate the lock handle. Remove the cam screw, cam washer, and cam.

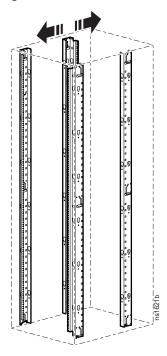
Rotate the cam washer 90 degrees, and the latch 180 degrees.
Install the handle on the door.



Equipment Installation

NOTE: NetShelter HS cabinets are intended for use with listed equipment. If you install unlisted equipment, you should evaluate the safety of your configuration.

Adjust the Vertical Mounting Flanges



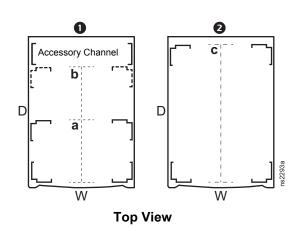
Vertical mounting flanges come factory-installed at 737 mm (29 in.), the proper location for use with rack-mountable equipment.

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

A common application for the 800 mm (31.5 in.) wide cabinet is to move the flanges to a depth of 476 mm (18.74 in.) to accommodate networking and telecommunications equipment.

Position the Vertical Mounting Flanges

- Configuration 1: 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 2: The Accessory Channel is removed. The Vertical Mounting Flanges can extend as far as (c).



Cabinet Width (W)	Cabinet Depth (D)	а	b	С
800 mm	1070 mm	288.0 mm (11.34 in)	787.4 mm (31.00 in)	927.1 mm (36.5 in)
800 mm	1200 mm	288.0 mm (11.34 in)	800.1 mm (31.50 in)	1054.1 mm (41.50 in)
600 mm	1200 mm	211.8 mm (8.34 in)	787.4 mm (31.00 in)	1041.4 mm (41.00 in)

Vertical Mounting Flange Adjustment

Caution

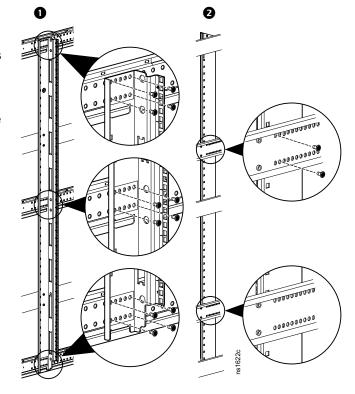
FALLING EQUIPMENT HAZARD

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

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

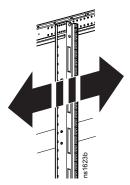
- 1. Remove the T25 Torx screws while holding the vertical mounting flange in place.
 - Each flange has three inner screw locations with four screws each.
 - 2 Each flange has two outer screws attached to a horizontal bracket. The outer screws can be found on either of two horizontal brackets.

NOTE: You will need 28-30 in-lbs of torque for this step.



2. Move the mounting flange to the desired location. Ensure the top, middle, and bottom screw locations are vertically aligned.

NOTE: Vertical mounting flanges adjust in 13 mm (1/4 in.) increments.



- 3. Re-insert and tighten the Torx screws. (See illustration for step 1.)
 - On each flange, put at least four screws in each of the three inner screw locations.
 - On each flange, put two screws in at least one of the outer screw locations.

NOTE: You will need 28-30 in-lbs of torque for this step.

Install the Equipment

WARNING

TIP HAZARD

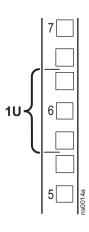
- This cabinet is easily tipped. Make sure you have secured the cabinet to the floor before installing equipment.
- Install the heaviest equipment first and toward the bottom of the cabinet to prevent the cabinet from becoming top-heavy.
- Do not extend equipment on sliding rails until you have installed 158 kg (348 lbs) 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.

To install rack-mount equipment in the cabinet:

Review the equipment manufacturer's installation instructions.

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. Install the cage nuts on the interior of the vertical mounting rail; then install the equipment.



Cage nuts

Caution

FALLING EQUIPMENT HAZARD

Do NOT install cage nuts vertically with the ears engaging the top and bottom of the square hole.

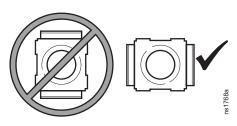
Failure to follow these instructions can result in injury or equipment damage.

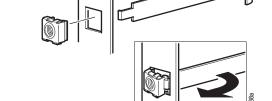
Installation: Schneider Electric offers a cage nut hardware kit (AR8100) for use with square holes.

Install cage nuts horizontally, with the ears engaging the sides
of the square hole. Insert the cage nut into the square hole
by hooking one ear of the cage nut assembly through
the far side of the hole.

NOTE: Install the cage nuts on the interior of the vertical mounting flange.

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



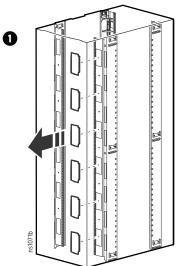


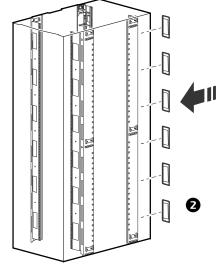
Removal:

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

Remove the Cable Cutout Covers

For NetShelter HS 800 mm (31.5 in.) wide cabinets that include equipment requiring side airflow, on the side of the cabinet nearest the air intake for the equipment, remove the cable cutout covers from the front vertical mounting flange. Reinstall the covers in the cable cutout holes on the rear vertical mounting flange on the same side of the cabinet.





Cable Management

The NetShelter HS 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 0U cable organizers, or accessory channels, are included with the cabinet. Further cable management accessories are available. Please go to **www.schneider-electric.com**, or contact a Schneider Electric reseller for more information.

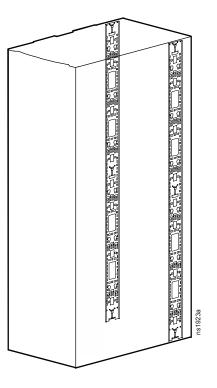
Accessory Channels

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

There are four Accessory Channels included with the 1200 mm (47.24 in.) deep cabinet. There are two included with all other cabinets. The factory-default position for the accessory channels is in the rear of the cabinet, as shown in the graphic to the right.

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

Similar to the mounting flanges, the accessory channel can be moved anywhere along the side braces.



Adjust the Accessory Channels

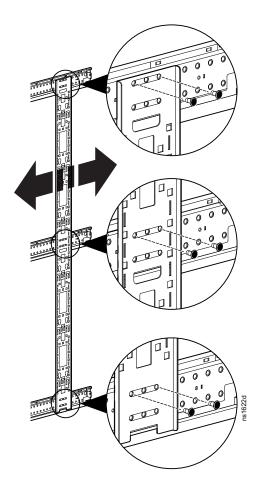
If needed, the accessory channels can be removed. Additional vertical 0U accessory channels are available for order from www.apc.com.

 Remove the T25 Torx Screws while holding the accessory channels in place. Each accessory channel has three screw locations with two screws each.

NOTE: You will need 28-30 in-lbs of torque for this step.

- 2. Move the accessory channel to the desired location. Ensure the top, middle, and bottom screw locations are vertically aligned.
- 3. Re-insert and tighten two Torx screws in each screw location. The positioning of the screws can vary.

NOTE: You will need 28-30 in-lbs of torque for this step.



Specifications

Dimensions

	Height		Width		Depth		Cabinet
	1991 mm (78.4 in.) 42U	2258 mm (88.9 in.) 48U	600 mm (23.6 in.)	800 mm (31.5 in.)	1200 mm (47.2 in.)	1070 mm (42.1)	Weight (unloaded)
AR9300SP	•		•		•		185 kg (407 lbs)
AR9307SP		•	•		•		201 kg (444 lbs)
AR9387SP		•		•	•		236 kg (520 lbs)
AR9180SP	•			•		•	193 kg (425 lbs)

Air Flow*

Door Open Area					Airflow Capacity		Door
	Total (front)	Total (rear)	per U (front)	per U (rear)	front	rear	Perforati on
AR9300SP	5501.02 cm ²	6243.56 cm ²	130.98 cm ²	148.66 cm ²	61%	69%	69%
	852.66 in ²	967.75 in ²	20.30 in ²	23.04 in ²			
AR9307SP	6293.19 cm ²	7080.18 cm ²	131.11 cm ²	147.50 cm ²	61%	69%	69%
	975.45 in ²	1097.43 in ²	20.32 in ²	22.86 in ²			
AR9387SP	9254.87 cm ²	10072.58cm ²	192.81 cm ²	209.85 cm ²	90%	98%	69%
	1434.51 in ²	1561.25 in ²	29.89 in ²	32.53 in ²			
AR9180SP	8089.88 cm ²	8804.66 cm ²	192.62 cm ²	209.63 cm ²	90%	98%	69%
	1253.93 in ²	1364.73 in ²	29.86 in ²	32.49 in ²			

^{*}Extra airflow from the door gap is not included in these calculations.

Clearance for wiring between AR9300SP, AR9307SP: 61.01 mm (2.40 in)

front door and vertical rail AR9387SP: 67.36 mm (2.65 in)

AR9180SP: 65.86 mm (2.59 in)

Weight rating: static load¹ 1928 kg (4250 lbs)

Weight rating: rolling² 1588 kg (3500 lbs)

Weight rating: shipping 1588 kg (3500 lbs)

Maximum Installation Weight Static load + cabinet weight

Safety Approval cULus - UL 2416

¹ Lower the leveling feet if the static weight is over 1588 kg (3500 lbs).
Rolling rating valid only for rolling the cabinet into position.

Limited Factory Warranty

The limited warranty provided by Schneider Electric in this Statement of Limited Factory Warranty applies only to Products you purchase for your commercial or industrial use in the ordinary course of your business.

Terms of Warranty

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