ᏋᏅ ENCONNEX®

InfiniRack™

User Manual
InfiniRack Wall Mount Cabinet

Legal Disclaimer

Safety Information

IMPORTANT SAFETY INSTRUCTIONS — SAVE THESE INSTRUCTIONS

This document contains important information and direction that should be followed during this product's installation, maintenance, and usage. Before installing or operating this equipment, please read all instructions, warnings, and cautions. Save this manual for future reference.

- DANGER

- Adding this symbol to a Danger or Warning label indicates an electrical hazard that will result in personal injury if the instructions are not followed.

- WARNING

- This is the safety alert symbol. It is used to alert you to potential personal injury hazards or the potential for product damage. Obey all safety messages that follow this symbol to avoid possible injury, death, or equipment damage.

Grounding Safety Information

	Danger ● Risk of electric shock hazards. ● Failure to follow the instructions may cause possible damage, injury, or death.

Cabinets should be bonded directly to the common ground.

- Each wall mount cabinet should be bonded using one of the designated grounding locations inside the cabinet chassis. Each location is identified with a ground symbol and has two M6 grounding studs, 0.625" (15.88 mm) center-to-center spacing.

Internal grounding Components Included

- Factory Installed in accordance with national and local electrical codes.
- Bonding wire closed ring tongue terminal, 12 AWG, M8 (500 mm length) x 1 EA
- Bonding wire closed ring tongue terminal, 12 AWG, M8 (300 mm length) x 1 EA

Bonding Terminal Locations

COMMON GROUNDING
POINTS

2x M6 GROUNDING STUD

[.625]
15.88
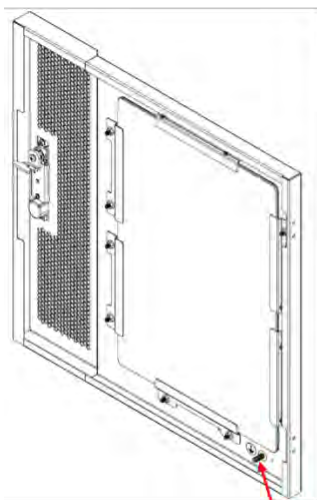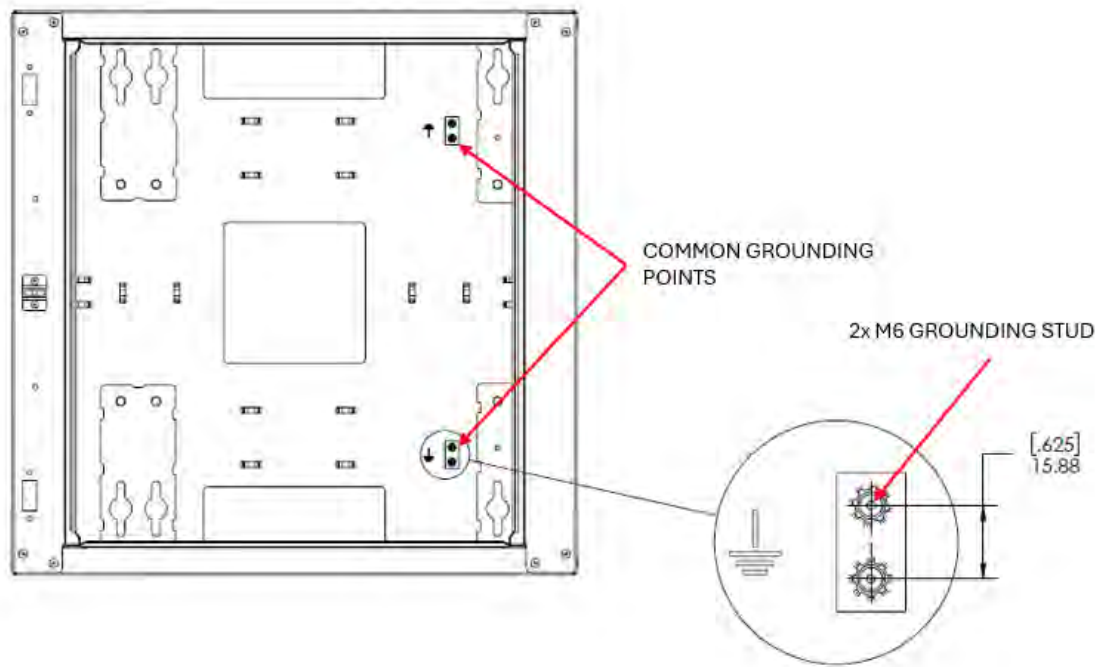
FRONT CHASSIS BONDING
TERMINAL
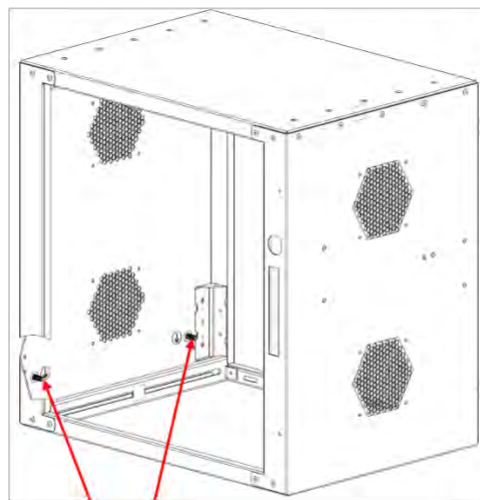
CENTER CHASSIS BONDING
TERMINAL

REAR CHASSIS BONDING
TERMINAL

1. Overview and Specification

1.1 Introduction

The InfiniRack Wall Mount (IRWM) cabinet was built for peak performance across a diverse array of networking environments where floor space may be limited and security is a concern. This cabinet is the result of world-class 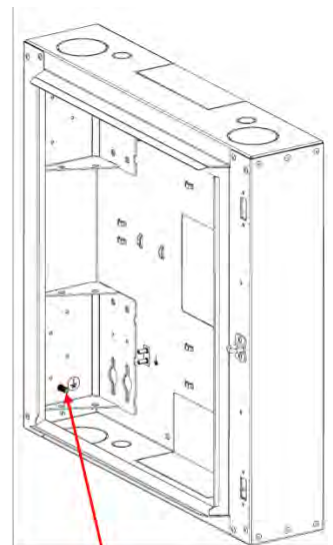engineering combined with decades of network infrastructure problem solving. It's easily deployable, durable, and brings a robust set of features designed to ease the mind of IT managers across a variety of industries.

This manual covers the installation, configuration, and important safety and operational information for the IRWM cabinet.

The IRWM cabinets are available in four standard usable heights: 9U, 12U, 18U and 24U (Figure 1.1), 24" (610 mm) width. 9U is available in 18" (457 mm) depth and 12U, 18U, and 24U heights are available in 24" (610 mm) or 30" (762 mm) depths, and in standard color black (RAL 9005). Every IRWM cabinet includes one pair of vertical equipment mounting rails, a pair of door lock keys, 25-pack of M6 cage nuts and screws and owner's manual (digital version available via QR code).

The rear chassis features top and bottom knockouts for trade size conduit entry (2-1/2" and ¾"). It also includes patent-pending rectangular knockouts (7.7" W x 2.8" D / 196 mm x 70 mm) for the installation of either a brush panel to preserve cables and control airflow or integration of an existing patch panel (2U) to reduce the risk of downtime.
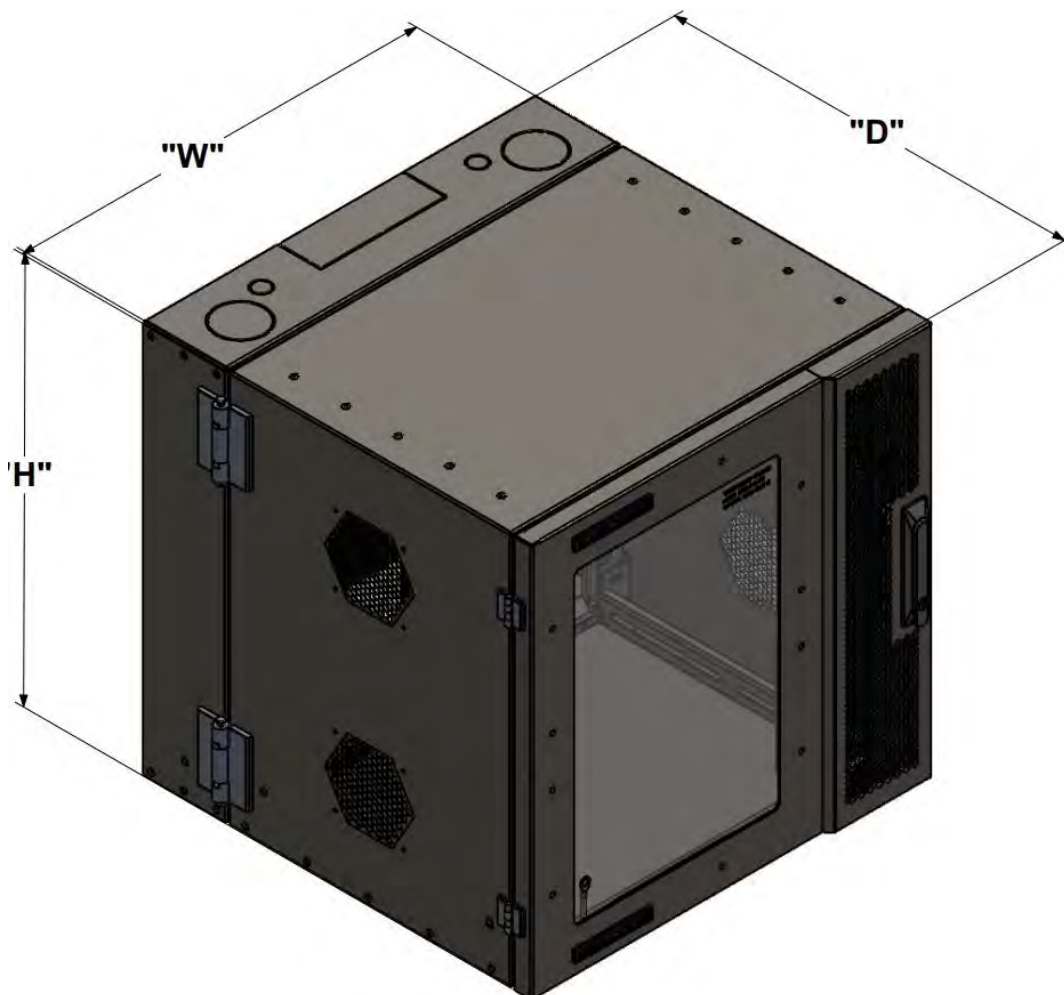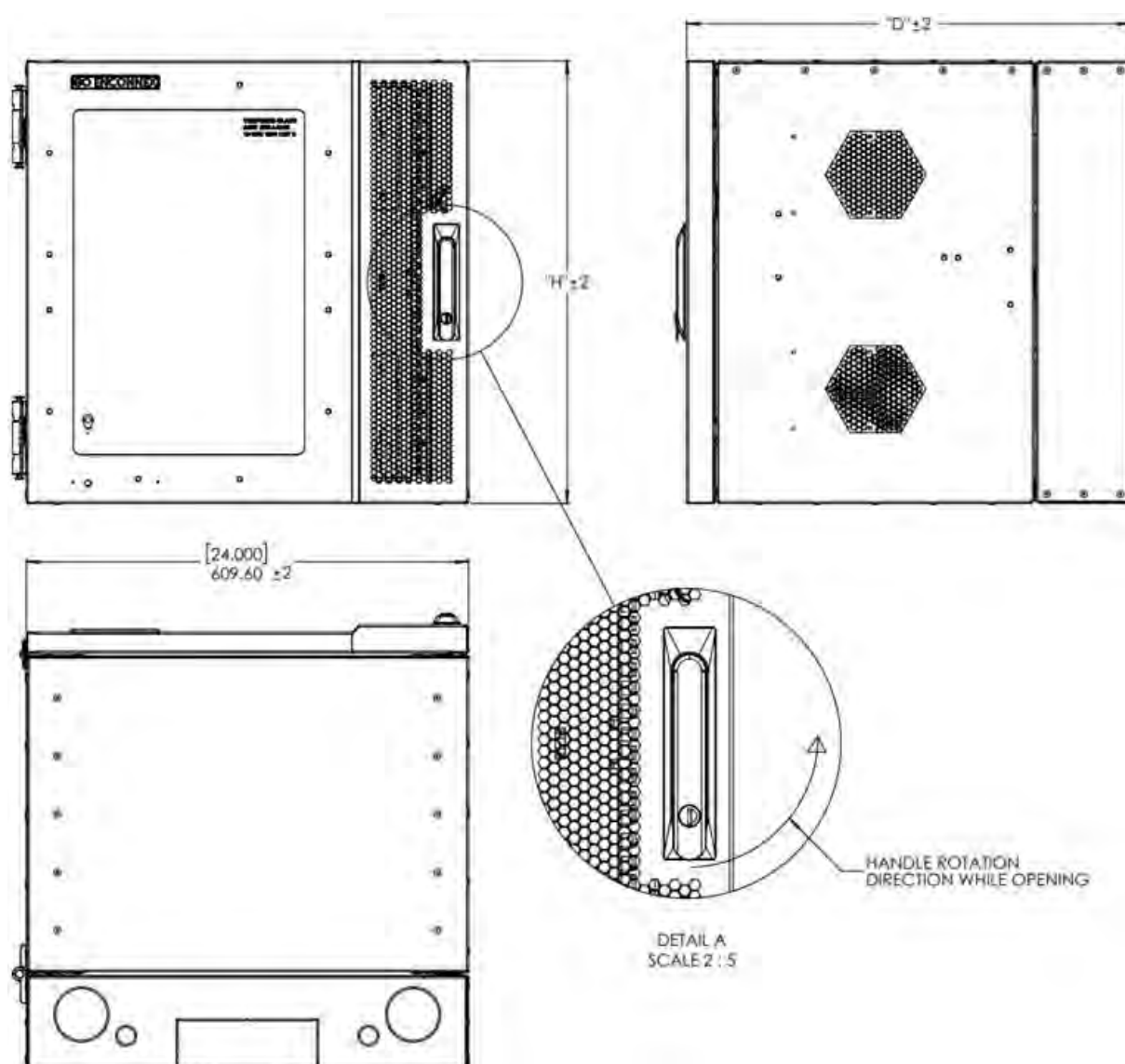

(Figure 1.1)

1.2 Size Configuration

Size Configuration (Figure 1.2)

| Part Number	Usable Height	Physical Dimensions (WxDxH)	Weight	Load Rating
E150018-09B	9U	24.0"W x 18.0"D x 18.8"H (610 mm x 457 mm x 476 mm)	64 lb (29.0 kg)	120 lb (55 kg)
E150024-12B	12U	24.0"W x 24.0"D x 24.0"H (610 mm x 610 mm x 610 mm)	87 lb (39.3 kg)	200 lb (91 kg)
E150030-12B	12U	24.0"W x 30.0"D x 24.0"H (610 mm x 762 mm x 610 mm)	99 lb (44.6 kg)	200 lb (91 kg)
E150024-18B	18U	24.0"W x 24.0"D x 36.0"H (610 mm x 610 mm x 914 mm)	108 lb (49.1 kg)	200 lb (91 kg)
E150030-18B	18U	24.0"W x 30.0"D x 36.0"H (610 mm x 762 mm x 914 mm)	123 lb (55.5 kg)	200 lb (91 kg)
E150024-24B	24U	24.0"W x 24.0"D x 48.0"H (610 mm x 610 mm x 1219 mm)	132 lb (59.7 kg)	200 lb (91 kg)
E150030-24B	24U	24.0"W x 30.0"D x 48.0"H (610 mm x 762 mm x 1219 mm)	148 lb (66.7 kg)	200 lb (91 kg)

(Figure 1.2)

Available Space (Figure 1.3)

Part Number	Overall Depth (A)	Center Chassis Depth (B)	Maximum Usable Depth (C)*
E150018-09B	18.0" (457 mm)	11.1" (282 mm)	14.0" (355 mm)
E150024-12B	24.0" (610 mm)	17.2" (438 mm)	20.0" (510 mm)
E150030-12B	30.0" (762 mm)	23.2" (590 mm)	26.0" (660 mm)
E150024-18B	24.0" (610 mm)	17.2" (438 mm)	20.0" (510 mm)
E150030-18B	30.0" (762 mm)	23.2" (590 mm)	26.0" (660 mm)
E150024-24B	24.0" (610 mm)	17.2" (438 mm)	20.0" (510 mm)
E150030-24B	30.0" (762 mm)	23.2" (590 mm)	26.0" (660 mm)

*Maximum assumes the front rails are in furthest forward position.

SECTION A-A
(INTERIOR DETAIL)
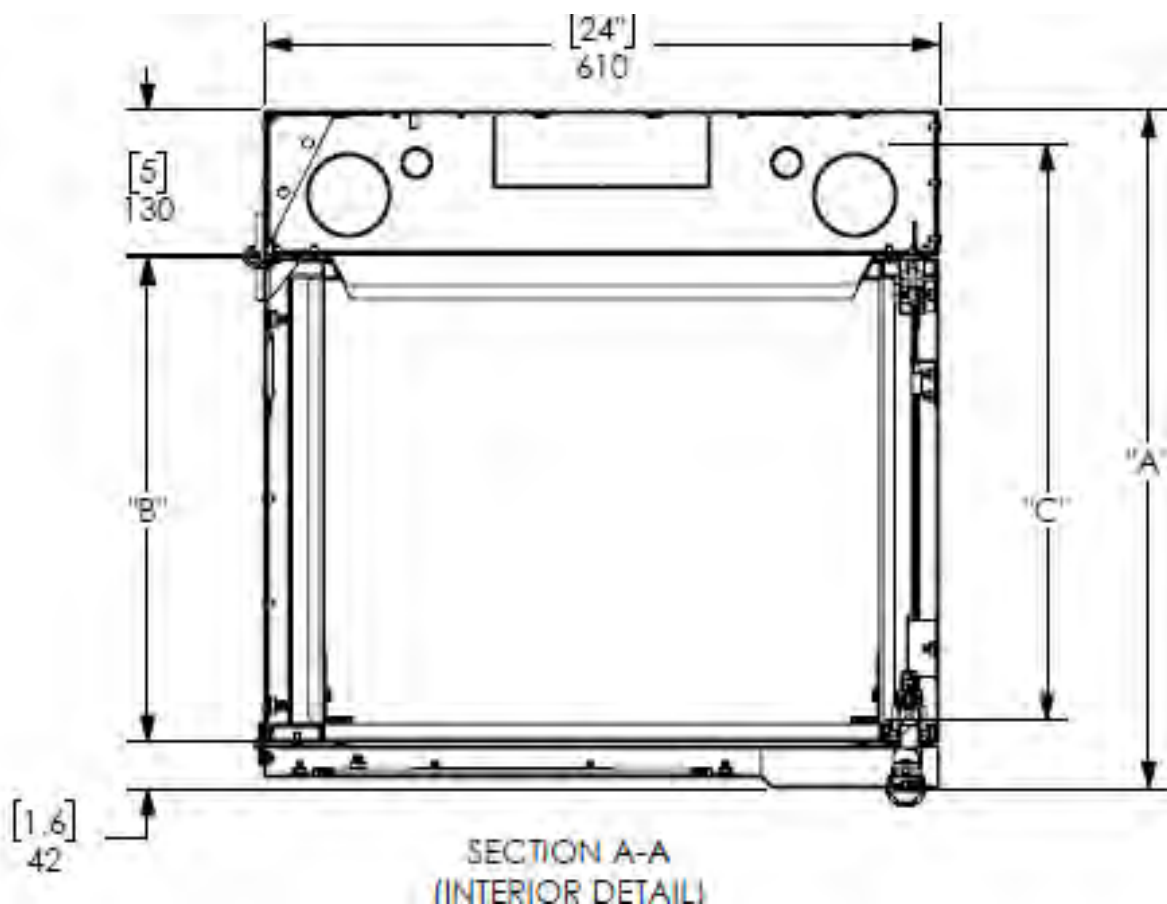
(Figure 1.3)

2. Unpacking Instructions

Note: Unpacking instructions for an end-user, single cabinet.
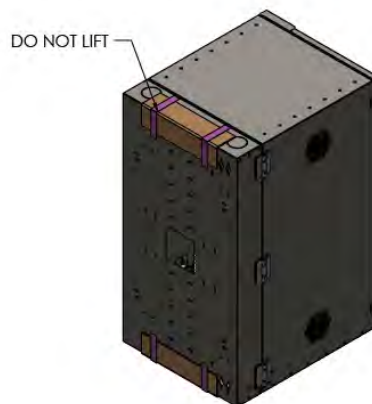
Steps (Figure 2.1)
1. Inspect the packaging for visible damage.
2. Remove the protective material around the cabinets
3. Remove the corner edge protectors and protective bag
4. Inspect the product for damage and ensure all accessories and components are present and undamaged.
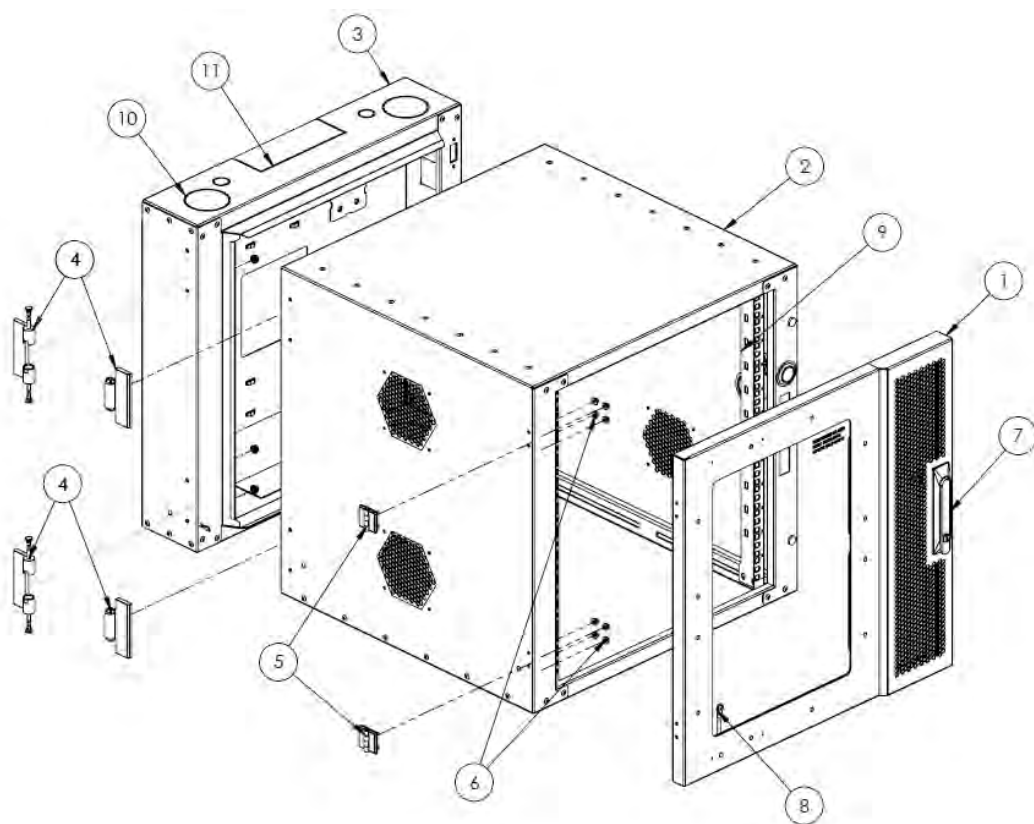
Note: Packaging materials are recyclable
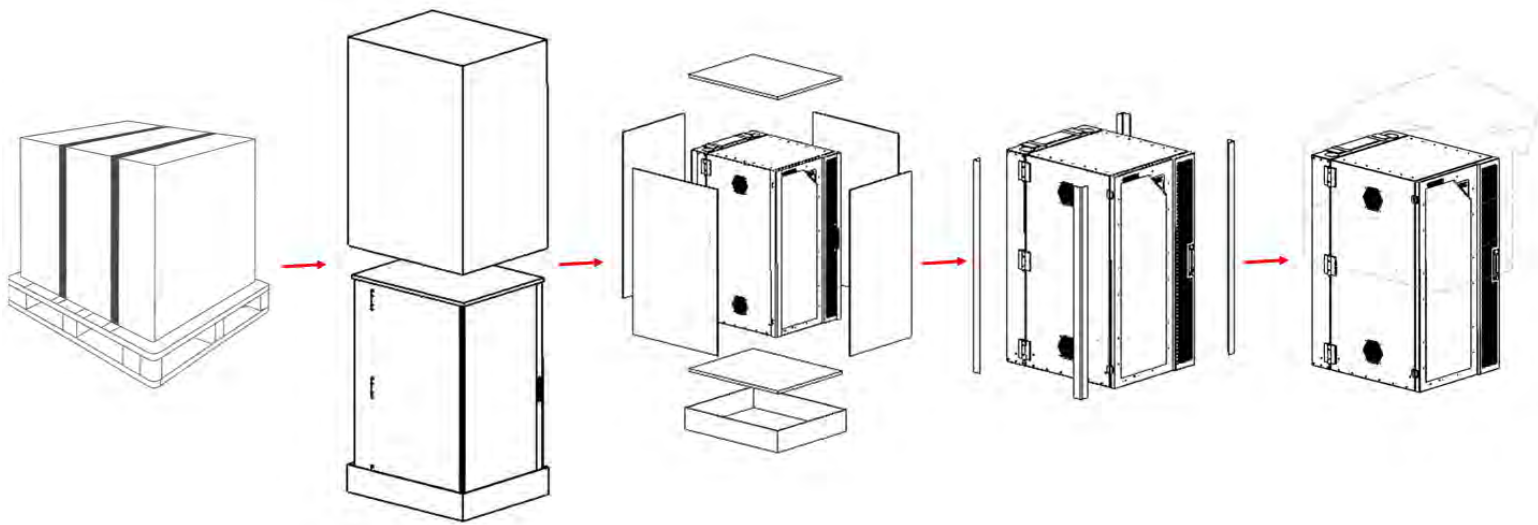
(Figure 2.1)

- WARNING (Knockouts are not lifting points)

(Figure 2.2)

3. Components Identification

(Figure 3.1)

	Component Name
1	Front Door
2	Center Chassis
3	Rear Chassis
4	Center Chassis Hinges
5	Front Door Hinges
6	M5 Hardware
7	Door Handle
8	Bonding Terminal
9	Mounting Rail
10	Cable Access Knockout
11	Large Knockout for Patch Panel Access (Patent Pending Design) or Optional Brush Panel

NOTE: * Some components and accessories listed are optional.

Included Hardware:
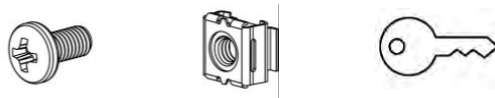
M6X16 Phillips Screw	M6 Cage Nut	Keys
(25)	(25)	(1)

4. Cabinet Installation

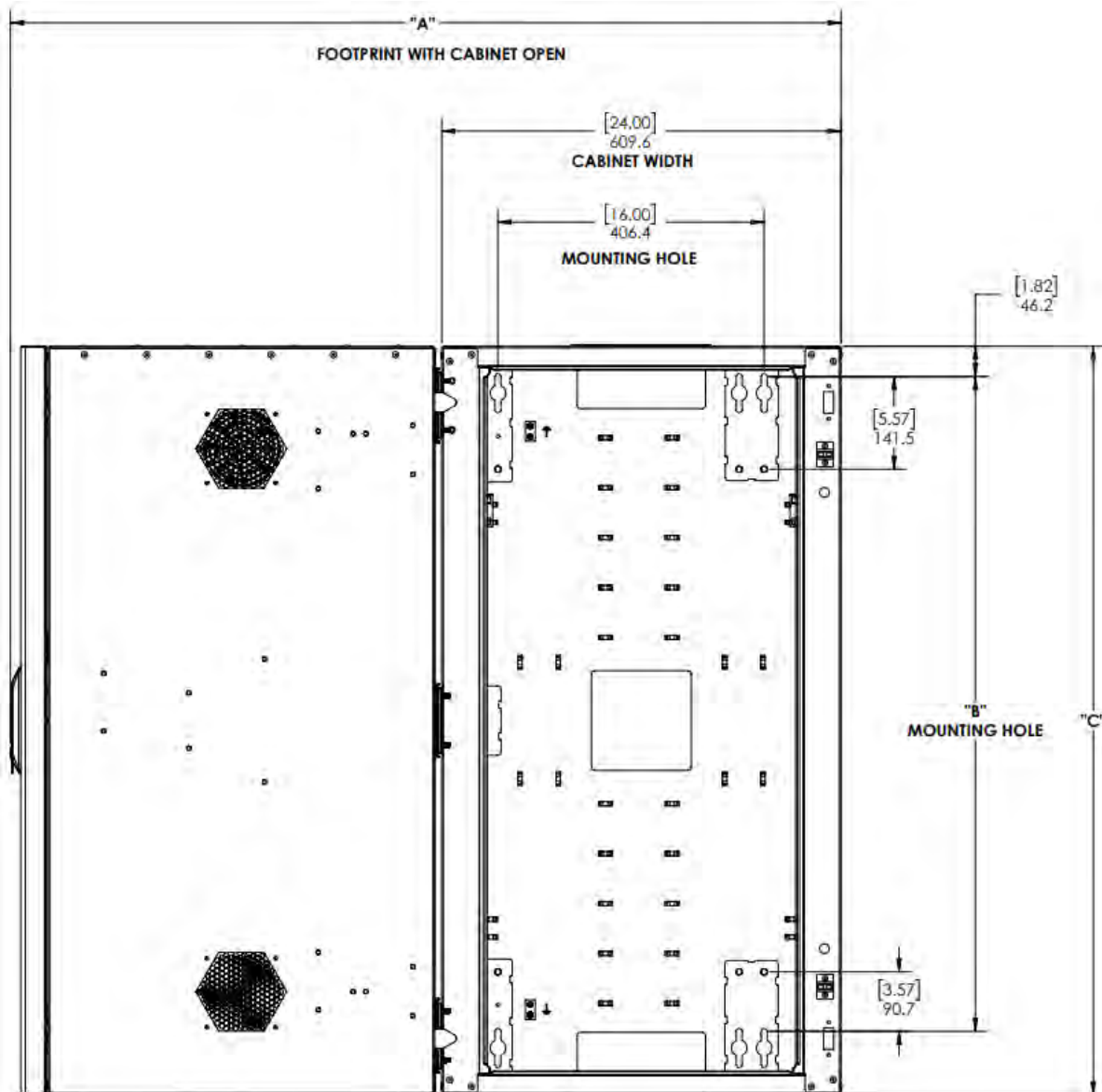Identify the desired mounting surface. The surface must be flat and square in both horizontal and vertical plane. The mounting surface should extend beyond the overall cabinet footprint to prevent over rotation. Refer to footprint with cabinet open dimension "A" for required wall mounting dimensions, (Fig. 4.0.1).


PART NUMBER	DIM (A)	DIM (B)	DIM (C)
E150018-09X	959.7 [37.78"]	333.0 [13.11"]	476.2 [18.75"]
E150024-12X	1115.7 [43.92"]	466.3 [18.36"]	609.6 [24.00"]
E150030-12X	1268.1 [49.92"]	466.3 [18.36"]	609.6 [24.00"]
E150024-18X	1115.7 [43.92"]	733.1 [28.86"]	876.3 [34.50"]
E150030-18X	1268.1 [49.92"]	733.1 [28.86"]	876.3 [34.50"]
E150024-24X	1115.7 [43.92"]	999.7 [39.36"]	1143.0 [45.00"]
E150030-24X	1268.1 [49.92"]	999.7 [39.36"]	1143.0 [45.00"]

(Figure 4.0.1)

4.1 Mounting Instructions for Rear Chassis

Disclosure: These instructions are recommended exclusively for a configuration using 16" wall studs and a ¾" plywood backboard.

Note: Decide on which side you want the door to open. The default cabinet is shown with the door opening on the left side as in Figure 4.1.1.
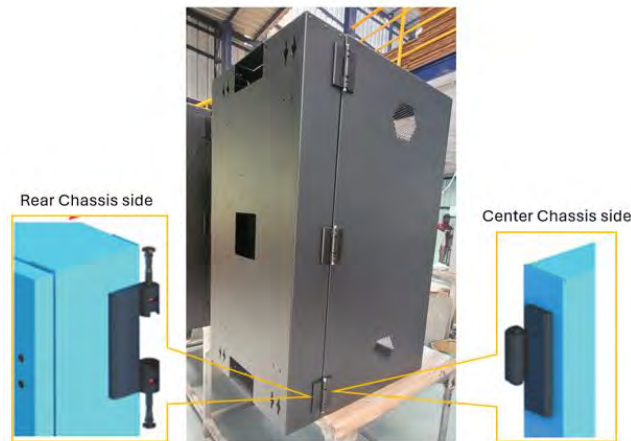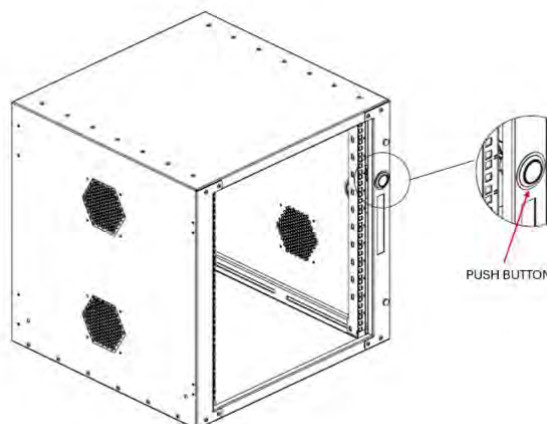

(Figure 4.1.1)

Recommended Tools for Mounting
- 3/8-inch socket and 3/8-inch wrench
- Drill and drill bit
- The size of hardware and screws is determined by the size of the slotted keyhole
- Use shakeproof washer with the mounting lag screws

Section 1: Separate rear chassis from unit
1. Ensure the hinges are on the left if you want the door to open to the left. If you prefer a right-side opening, rotate the chassis 180 degree.
2. Open the front door, press the push-button latch to release the center from rear chassis and pull apart while holding push-button, shown in Fig. 4.1.2.
3. Separate the male and female terminal connectors of the grounding cable connecting the center and rear chassis. Terminal connectors are shown in Fig 4.1.3.
4. To separate rear chassis from center chassis, pull out the hinge pins as shown in Fig. 4.1.4.
5. Rotate the center chassis to a 90-degree angle as shown in Fig. 4.1.4.
6. Separate the center chassis from the rear chassis, as shown in Fig. 4.1.4.
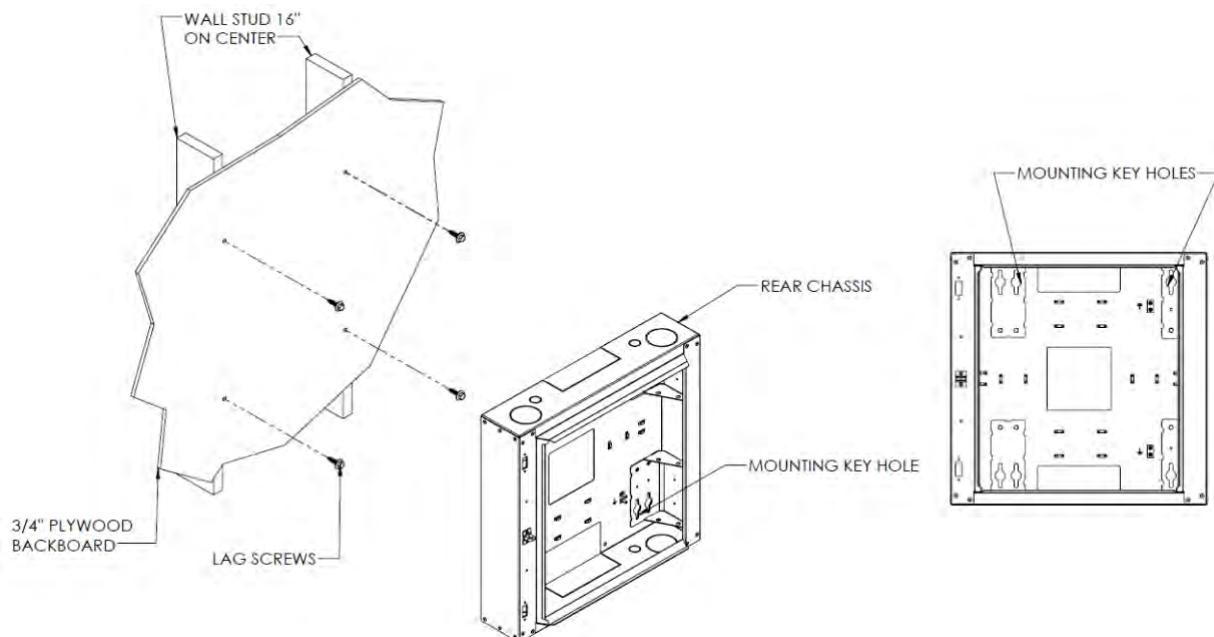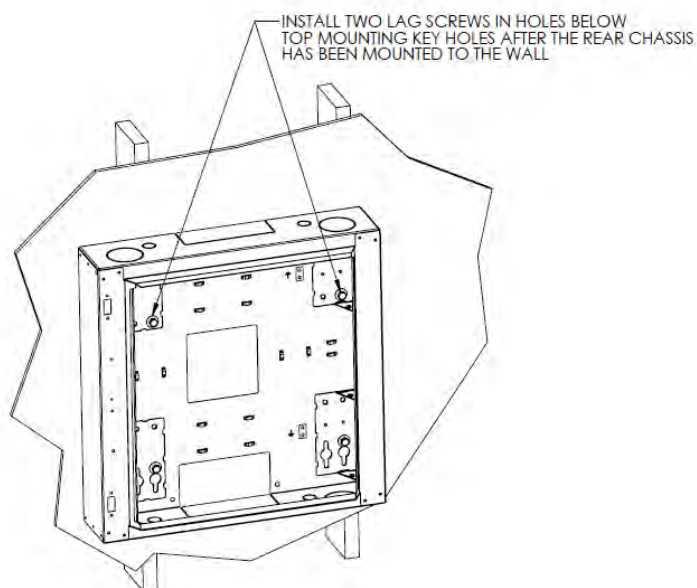

(Figure 4.1.2)

(Figure 4.1.3)

PULL PINS   OPEN CENTER CHASSIS 90 DEGREE   PULL TWO CHASSIS AWAY
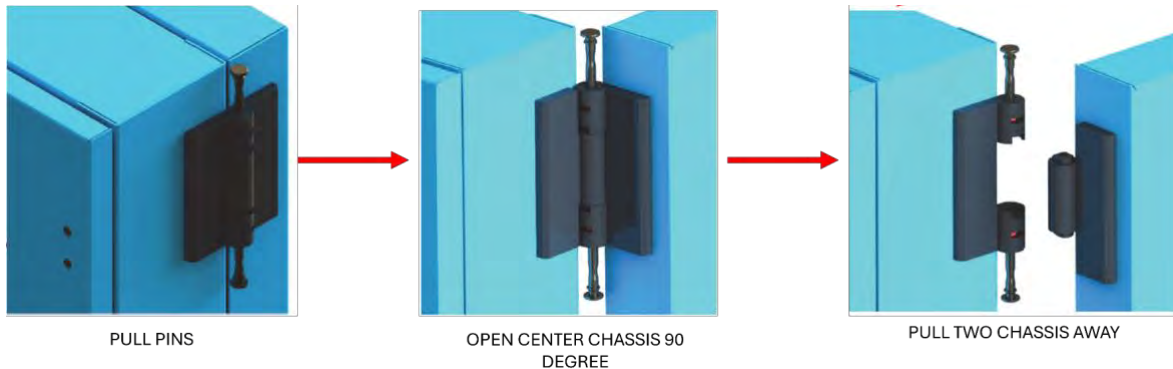
(Figure 4.1.4)

Section 2: Anchor rear chassis to the wall

7. The cabinet's mounting holes are 16" apart in the center. Mark the mounting surface.
8. Drill a pilot hole through the plywood to the dimensions shown on Fig. 4.1.5.
9. Recommended: First install upper 2 lag screws into the holes, directly into the wall studs. The screw head should protrude approximately ¼" exposed from the wall for mounting, Fig. 4.1.5.
10. Mount the rear chassis to the wall by hooking the slotted keyholes over the exposed screw head. Then install the lower 2 lag screws. Then tighten all 4 lag screws ensuring that the hardware is fully engaged inside the slotted holes, Fig. 4.1.6.
11. Install additional mounting screws above and below the slotted keyholes. Ensure mounting screws near the rear chassis are properly tightened to secure proper weight support.
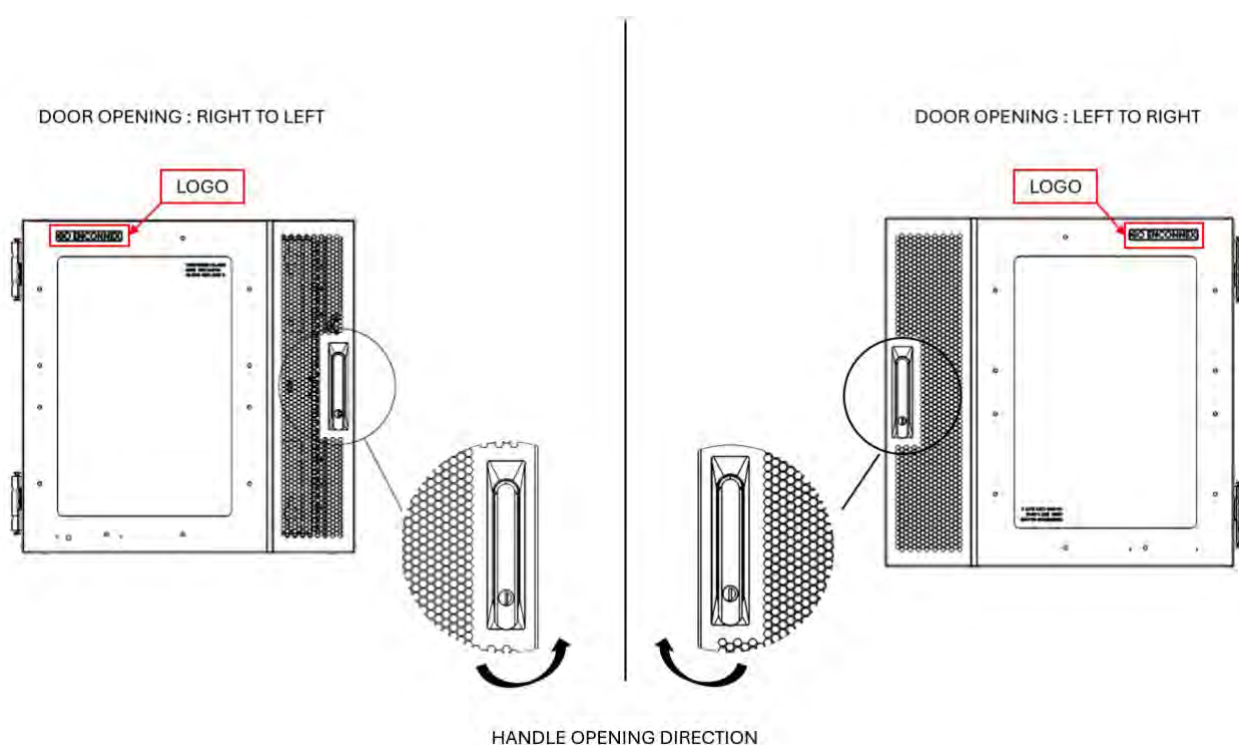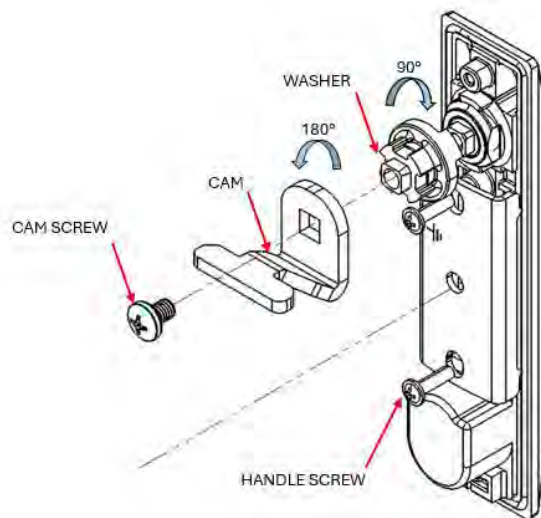

(Figure 4.1.5)

(Figure 4.1.6)

Section 3: Cabinet Orientation

12. Ensure the door handle opens as shown in Fig. 4.1.7.
13. If the cabinet is rotated, make sure to reposition the logo to the top as shown in Fig. 4.1.7.
14. If the hinges are on the right side of the cabinet, rotate the handle by removing the CAM and reposition it as shown in Fig. 4.1.8.
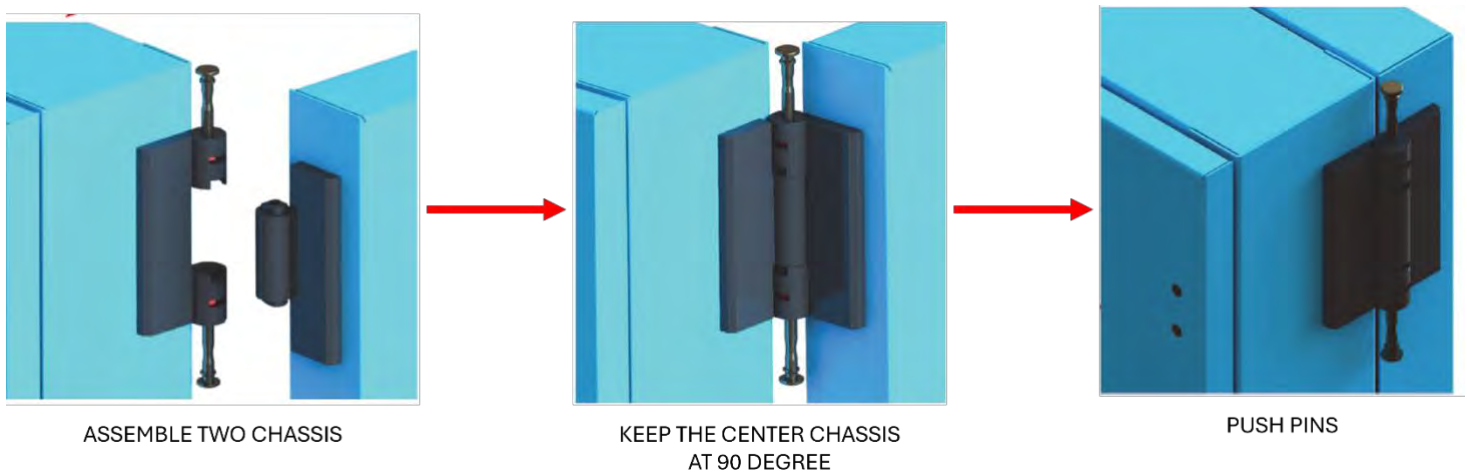

(Figure 4.1.7)

(Figure 4.1.8)

Handle Disassemble Instructions

1	Remove the handle screws
2	Remove cam screws and cam
3	Rotate and reattach the handle to the door
4	Reattach the handle to the door using screws
5	Rotate cam 180°counterclockwise, then rotate washer 90° clockwise to rotate the handle towards the inside of the cabinet.
6	Reattach the cam with cam screw

Section 4: Cabinet Attachment

15. Align the center and rear chassis while keeping it open at 90 degrees as shown in Fig. 4.1.9.

16. Push the hinge pins back inside the hinge body as shown in Fig. 4.1.9.

17. Connect the male and female terminal connectors of the grounding cable.

18. Close the center chassis to lock the cabinet.

ASSEMBLE TWO CHASSIS

KEEP THE CENTER CHASSIS AT 90 DEGREE

PUSH PINS

(Figure 4.1.9)

4.2 Vertical Mounting Rail Adjustment

Mounting Rail

The vertical mounting rails come factory installed. The mounting rails are adjustable towards the front or the rear of the cabinet to accommodate different rails, cable managers, or equipment with other depths.

Adjusting Mounting Rail Depth

1. Each vertical mounting rail is attached to the enclosure using two M6x12 screws and two M6 cage nuts— one at the upper corner and another at the lower corner (Figure 4.2).
2. Use a Phillips-head screwdriver to loosen the screws that secure the rails to the enclosure.
3. Slide the mounting rails to the desired depth.
4. Make sure the top and bottom holes of the vertical rail align with the same slot on the horizontal rail.
5. Tighten the screws to secure the rails in place.
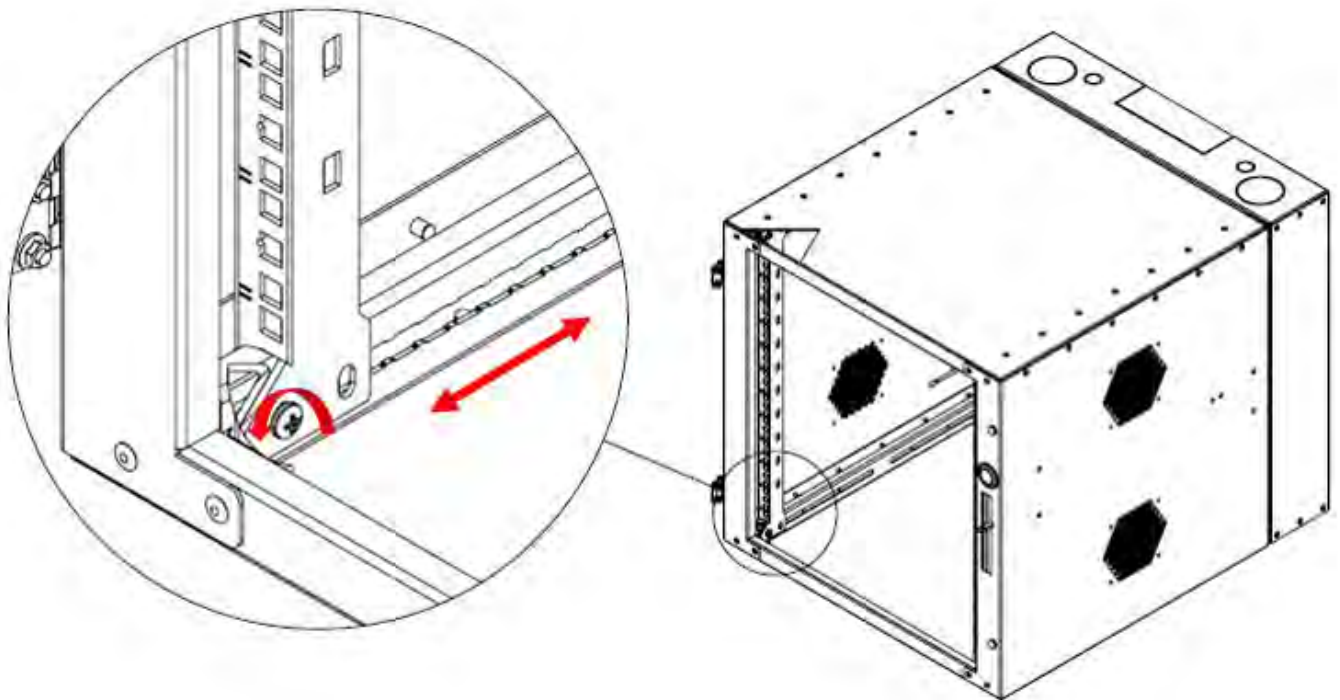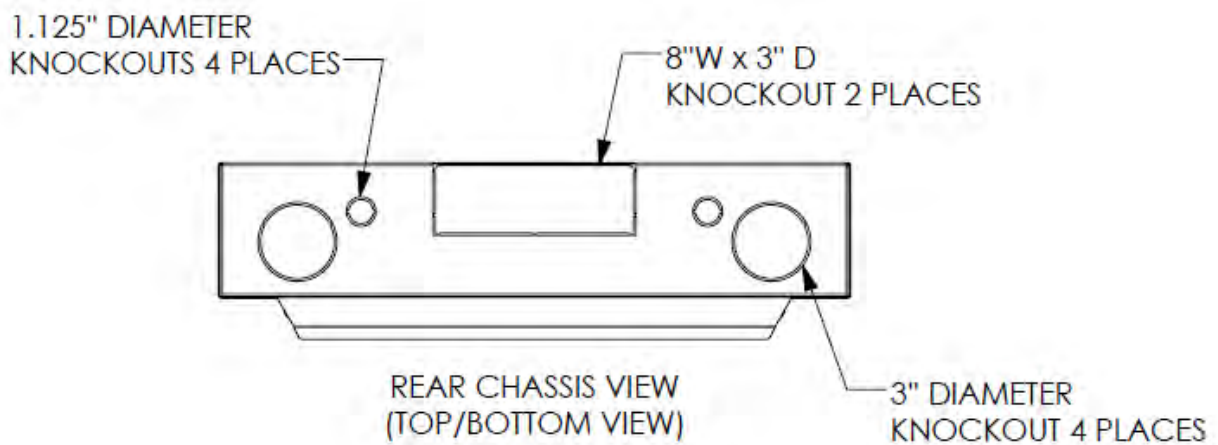

(Figure 4.2)

4.3 Rear Chassis Knockouts

Rear panel includes 1.1" and 3" knockouts and can accept 3/4" and 2.5" conduit respectively. Also has an 8"x3" rectangular knockout (this has an optional brush seal) (Figure 4.3).

Tools recommended: Flat Head Screw Diver

To open the knockouts:

1. Place the tip of the flat-head screwdriver at the edge of the slug.
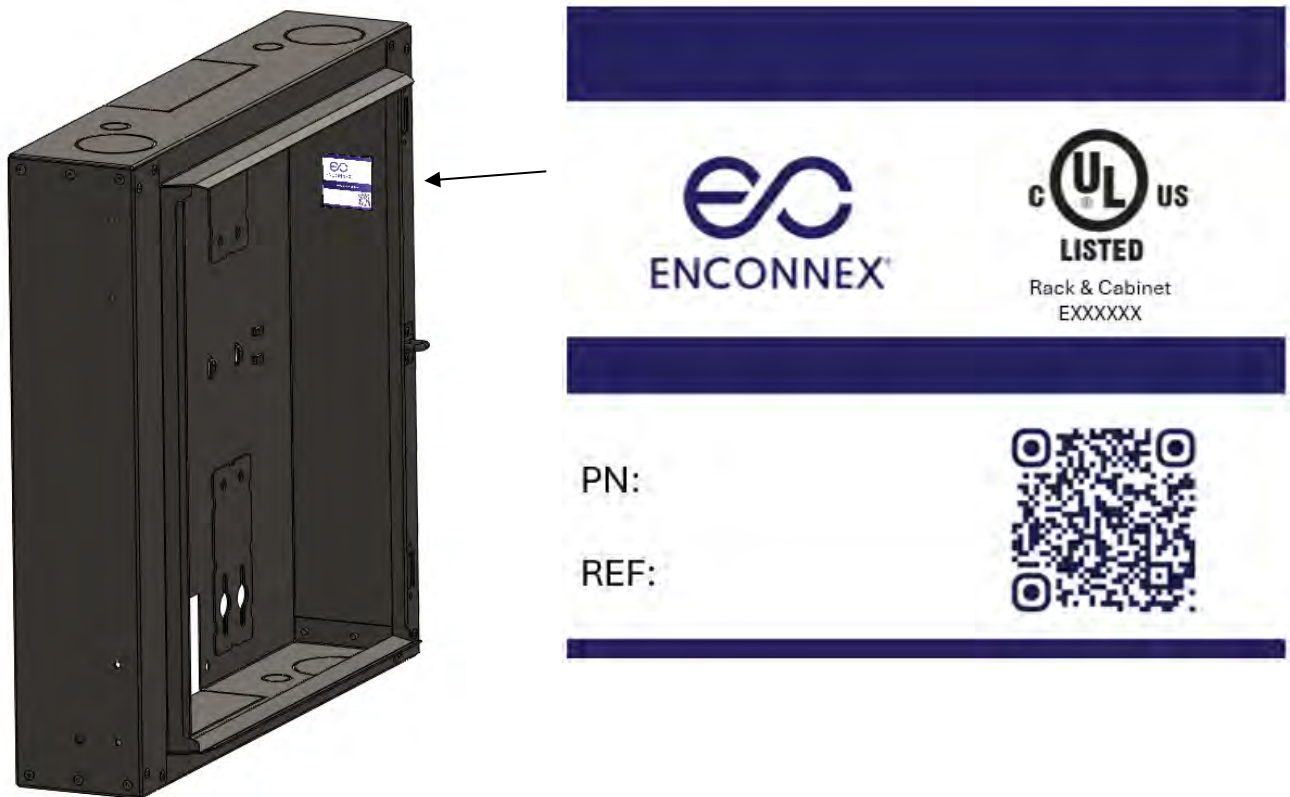2. Tap the screwdriver with the mallet to break the slug.

(Figure 4.3)

5 Support and Other Resources

Label Information

Product Identification Label: InfiniRack Wall Mount cabinets ship with a Product Identification Label applied to the rear-side chassis area of the cabinet and is visible when center chassis is open, (Figure 5.1).

(Figure 5.1)

Customer Service and Support:

- support@enconnex.com
- +1 (775) 562-2138