NEXXT SOLUTIONS INFRASTRUCTURE

5 YEAR LIMITED WARRANTY

Semi-knocked down

fixed wall-mount enclosure

NPC-F9U64B	NPC-F12U64B NPC-F15U64B NPC-F18U64B	NPC-F6U64B NPC-F6U66B NPC-F9U66B	NPC-F12U66B NPC-F15U66B NPC-F18U66B

ProfessionalSeries

IMPORTANT SAFETY INFORMATION

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN LEAD TO SERIOUS INJURY, DEATH, OR DAMAGE TO YOUR EQUIPMENT

Carefully read and follow the safety instructions included in this manual before assembling and using the cabinet.

⚠ **Warning:** the wall structure must be capable of supporting the total weight, which includes the cabinet plus its maximum static load. Otherwise, the wall structure must be reinforced.

⚠ **Caution:** this product is heavy, at least two qualified people should perform the assembly procedure. Personal injury and/or property damage can result from dropping or mishandling the enclosure.

⚠ Do not exceed the recommended load capacity per rack, and the maximum weight supported by the enclosure, as indicated by the manufacturer's specifications. Failure to comply will void the warranty of this product.

⚠ For safety, use proper equipment and tools during the assembly to prevent personal injury and to avoid damaging its parts.

⚠ **FALLING EQUIPMENT HAZARD:** ensure that the cabinet is properly anchored to the wall prior to loading equipment inside the enclosure.

All parts of the unit must be properly grounded to the frame of the enclosure and connected to the Common Bonding Network (CBN) of your facility.

⚠ Nexxt solutions does not warrant against damage caused by the use of any Nexxt Solutions enclosures for any purposes other than those for which it was designed or damage caused by unauthorized attachments or modifications, and is not responsible for any damages, claims, demands, suits, actions or causes of action of whatever kind resulting from, arising out of or in any manner relating to any such use, attachments or modifications.

1. Introduction

Thank you for purchasing the semi-knocked down (SKD) fixed wallmount enclosure from Nexxt Solutions. Our wallmount unit is housed in a lockable heavy-gauge metal enclosure, to keep network equipment and cables safe and properly organized. Each cabinet includes a fan tray assembly to ensure optimum ventilation inside the unit. Available with 6, 9, 12, 15 and 18 rack spaces, these enclosures are designed for mounting multiple patch panels and other voice/data equipment where space is at a premium. Easy to install and assemble, our wallmount cabinets offer a cost-effective solution for applications requiring protection, accessibility and cable management capabilities.

Main features

- 132lb (60kg) maximum static load capacity
- Frame construction reinforced with steel, specially made to support heavy equipment
- Lockable access to front glass door
- Convenient side panels are easy to remove for maintenance
- Standard square-punched mounting rails for faster equipment loading
- The front door can turn 270 degrees
- Two-way fan tray provides outstanding ventilation to avoid overheating
- Toolless, reversible glass door installation
- EIA-compliant mounting rail system can be easily adjusted for equipment varying depths
- U-rack units are numbered front and back for easy equipment installation
- Finished surface to prevent damage caused by rust and other external factors

For support and to find out more about our complete line of products and solutions, we invite you to visit us at **nexxtsolutions.com.**

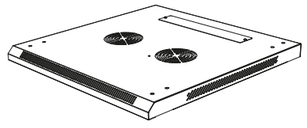
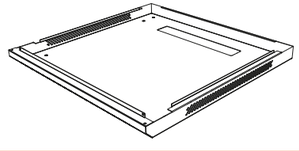
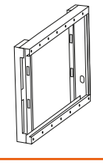
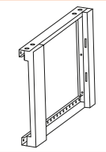
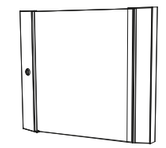
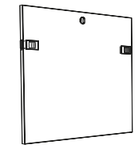
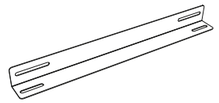
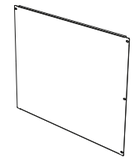
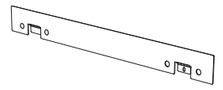
2.Preliminary steps

- Prior to installing this product, you must read all instructions thoroughly.
- Keep these instructions handy in an easily accessible location for future reference.
- A clean, flat, level, protected floor area should be provided for cabinet assembly to prevent damage to parts.
- The installers may need to have the following items and tools available to assemble and install the cabinet. They are not included in the box.

1. Phillips screwdriver
2. Power drill with the following bits:
   Phillips-head tip
3. Combination wrench #13
4. Hex to square socket adaptor
5. Pair of gloves
6. Long nose pliers
7. Cleaning towel
8. 3mx2m mat or padded surface

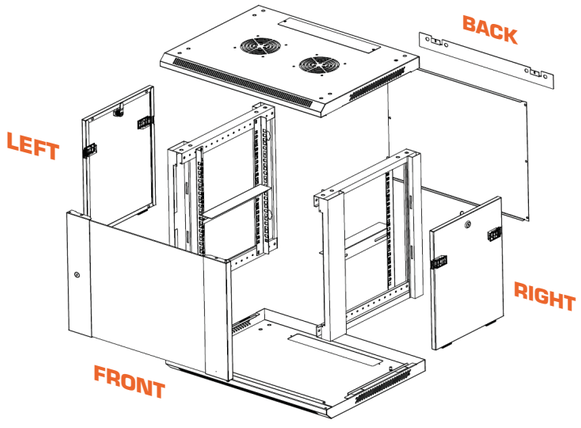
3. Product overview and components

Upon opening the box, inspect the contents to ensure that all the items listed below are included:

Part ID	Item	Quantity	Image
1	Top fan tray assembly	1	
2	Bottom panel	1	
3	Left support frame	1	
4	Right support frame	1	
5	Front tempered glass door	1	
6	Removable side panel	2	
7	L-shaped bracket	2	
8	Rear panel	2	
9	Mounting bracket	1	
10	Left vertical rail	2	
11	Right vertical rail	2	
12	Universal key set	1	
13	Cable entry plate	2	

	Hardware kit		
14	M8x12mm hexagon socket head screw	16	
15	M8 flange nut	16	
16	M6x12mm phillips screw and washer	4	
17	M6 cage nut	4	
18	M4x8mm self-tapping screw	18	
19	White plastic washer	1	
20	M5x8mm self-tapping screw	8	
21	M8 L-shaped allen wrench	1	
	Equipment mounting hardware		
22	M6x12 screw and cage nut set: • For 6U, 9U and 12U • For 15U and 18U	 12 24	
23	Grounding wire	(3 sets)	
	User manual	1	

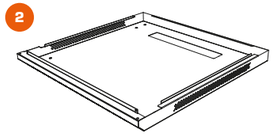
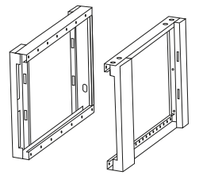
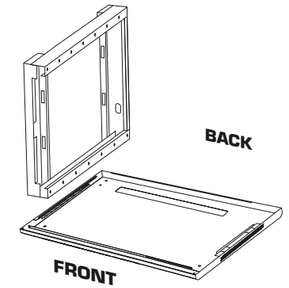
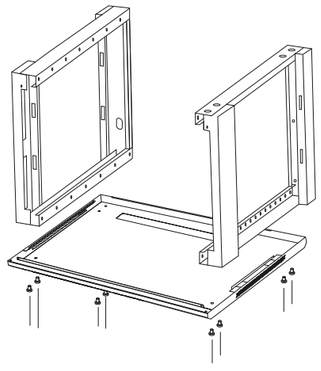
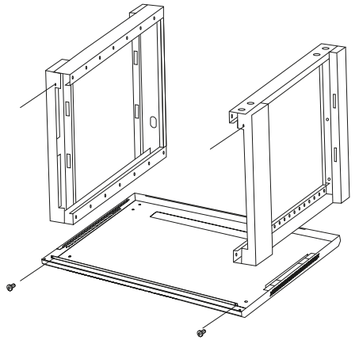
4. Assembly procedure (recommended)



• The illustration provides an exploded view of all the enclosure components you are about to put together.

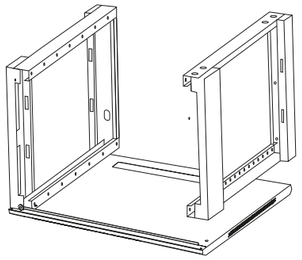
• Open the boxes and verify that all parts, hardware and accessories are included in the package.

• Inspect the cabinet components and identify each individual part to ensure proper assembly of the unit.

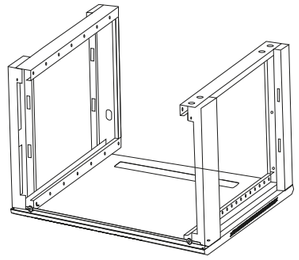
Phase	Required parts	Steps
1	2  Bottom panel 3  4 Left and right support frames 14 M8x12 hexagon screws (8) 15 M8 flange nut (8) 18 M4x8mm self-tapping screws (2)	**Bottom panel subassembly** 1. Align the left support frame with the front and back corners of the bottom panel. The section with the grille must be facing the front, and the cable entry plate should be facing the back.  2. Secure both ends of the frame to the bottom panel using the M8x12 hexagon screws and nuts, as illustrated below.  3. Insert the M4 self-tapping screws onto the front end of the bottom panel, as shown in image below. 

4. Repeat instructions 1 though 3 to attach the right support frame to the bottom panel.

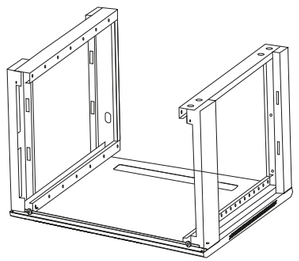
Note: do not fully-tighten the screws at this point.



5. Once step 4 is executed, your bottom panel subassembly will be ready for next phase.

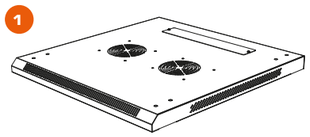


2



Bottom panel subassembly

1



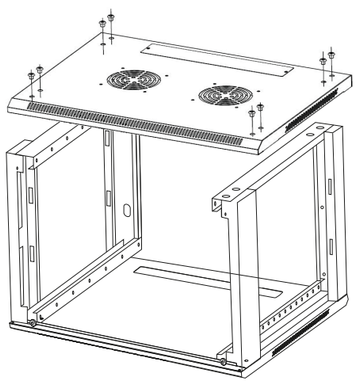
Top cover with fan assembly

Frame subassembly

1. Place and align the top panel onto the bottom panel subassembly. The section with the grille must be facing the front, and the cable entry plate should be facing the back.

2.Secure both ends of the frame to the top panel using the M8x12 hexagon screws and nuts, as shown in the image below.

FRONT



13

Cable entry plate (2)

14

M8x12 hexagon screws (8)

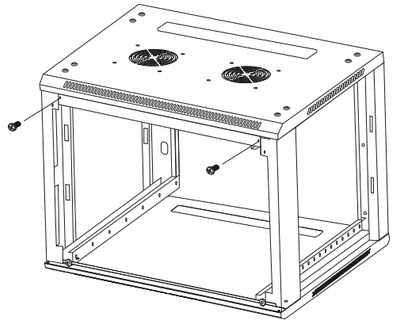
15

M8 flange nuts (8)

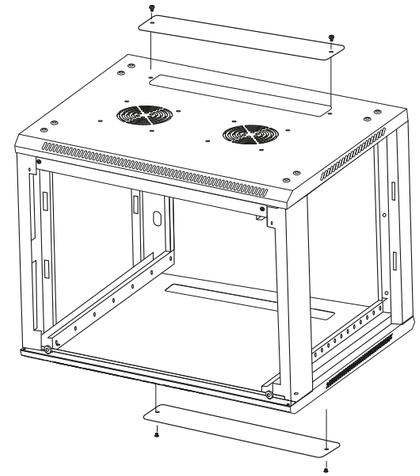
18

M4x8mm self-tapping screws (6)

3. Insert the M4 self-tapping screws onto the front end of the bottom panel subassembly, as shown in image below.

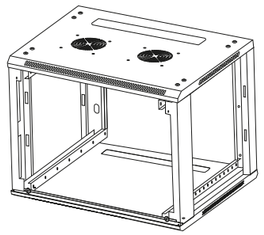


4. Attach the cable entry plate to the fan assembly tray using the M4x8mm self-tapping screws.



Note: now that the frame assembly is complete, firmly tighten all the screws to properly secure, align and square off the structure.

5. The frame assembly has been successfully completed.



Frame assembly

10

Vertical left rails (2)

11

Vertical right rails (2)

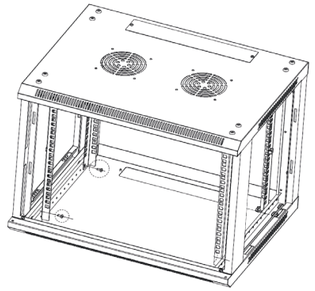
20

M5x8mm self-tapping screws (8)

Vertical rails installation

1. Position the left vertical rails between the front and rear frames.

2. Align the mouning holes of the left vertical rails with the mounting holes located on the top and bottom of the frame assembly, as per the image below.



Note: the position of the mounting holes must match the ones on the top and bottom to avoid misalignment.

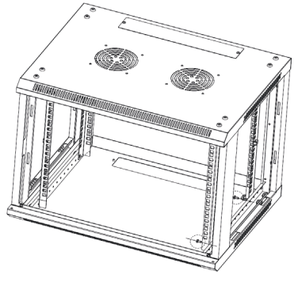
3. Make sure to place the left vertical rails in their upright position, having the rack unit numbers shown from high (top) to low (bottom).

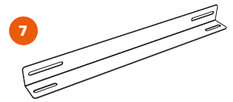
4. In addition, the row of numbers on each vertical rail must be facing each other on the front and rear sections of the assembly.

5. To secure the left vertical rail to the enclosure, insert the supplied M5 self-tapping screws in the corresponding mounting holes on the frame.

Note: make sure not to fully-tighen the first screw (front and rear sections) until the second screw on the vertical rail has been inserted. When done, proceed to firmly tighten both screws in every fastening point.

6. Repeat steps from 1 through 5 in order to install the right vertical rails.





7

L-shaped bracket (2)

16

M6x12 screws (4)

17

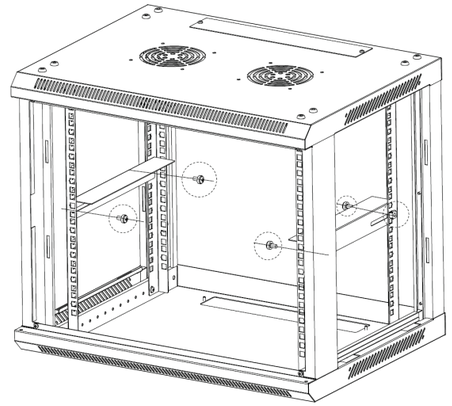
M6 cage nuts (4)

Installing horizontal brackets

1. On the left side of the frame, position the left L-shape bracket between the front and rear sections of the enclosure.

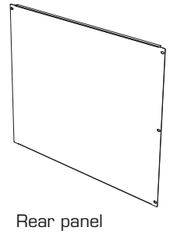
2. Select the mounting height inside the enclosure.

3. Proceed to insert the M6 cage nuts into the selected mounting holes of the rail.



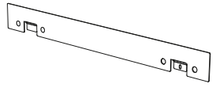
4. Align the oval perforation of the L-bracket (shorter side) with the square mounting holes on the rail and secure it using the supplied M6x12 screws and the M6 cage nuts.

5. Repeat steps 1 through 4 for installing the right side.



8

Rear panel

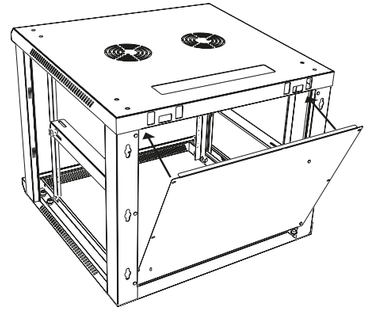


9

Mounting bracket

Rear panel

1. Align the back panel tab with the slot on the bottom frame.

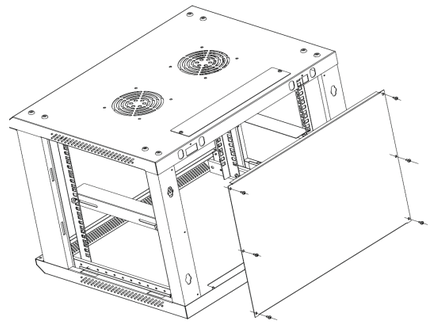


18

M4x8mm self-tapping screws (8)

2. Push the panel forward into the frame and make sure all mounting holes are aligned.

3. Using the M4 self-tapping screws, secure the rear panel to the enclosure.



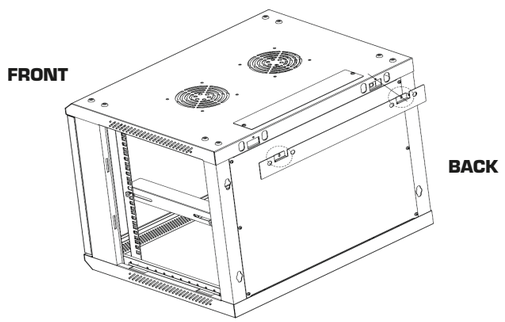
Note: fully-tighten the screws only after all the screws have been inserted.

Mounting bracket

1. Align the tab on the mounting bracket with the slots on the upper section of the frame.

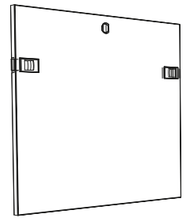
2. Make sure that the mounting holes on the bracket align with those on the frame.

3. Using the M4 self-tapping screws, secure the mounting bracket to the enclosure.



6

6

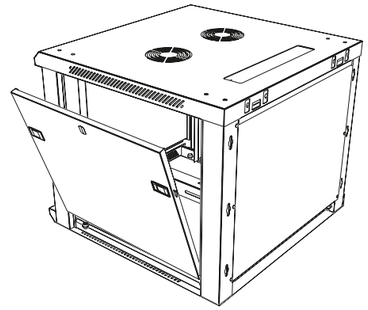


Side panels (2)

Lateral panels

1. Next, identify the 2 side panels. Both are identical for this model.

2. Place bottom section of the left side panel over the outer edge of the cabinet base.



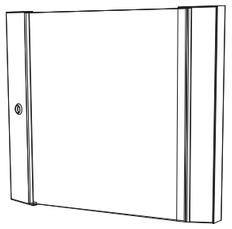
3. Slide the two latches inward to their open position while pushing the panel forward into the frame.

4. Repeat steps 1 through 3 to mount the right side panel.

5. Test to verify that the latching mechanism of the side panels are working properly.

7

5



Tempered glass door assembly

12

Set of keys

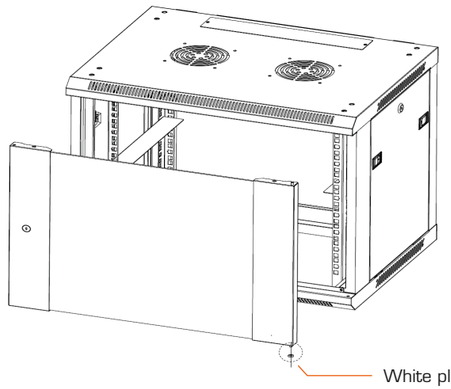
19

White plastic washer (1)

Front door installation

1. Insert a plastic washer in the pivot pin.

2. Position the front glass tempered door and carefully lower it to engage the pivot pin with the right or left side (as per customer's preference) of the bottom panel.



3. Next, pull down the spring lock located on the upper right section of the door and release it into the hinge hole in the enclosure.

4. Use the keys to test the locking mechanism of the door.

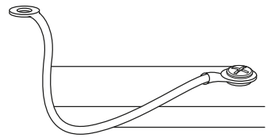
18

M4x8mm self-tapping screws (2)

23 Grounding wires (3 sets)

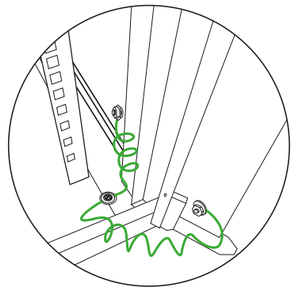
Grounding connection

1. Connect the first grounding cable to the door using the provided hardware.



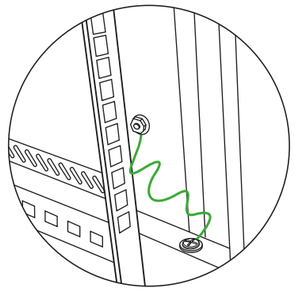
2. Likewise, connect the second grounding cable to the side panel using the hardware provided.

3. Using the self-tapping screw bind both grounding cables to the closest mounting hole on the right side horizontal beam.



4. Connect the grounding cable to the left side panel on the rear section of the cabinet.

5. Using the self-tapping screw bind the grounding cable to the closest mounting hole on the left side horizontal beam.



6. Then connect the designated grounding location directly to your facility's earth ground with an 8 AWG wire. Do not use the enclosure without an earth ground connection.

Note: fully-tighten the screws only after all the screws have been inserted.

Notes