



RM4001A
RM4002A
RM4003A
RM4004A

RM4005A
RM4006A
RM4007A

Pro Series Wallmount Cabinet

Store and secure communications equipment.

- Provides 12U of racking space.
- Supports up to 200 pounds (90.72 kg).



Customer Support Information

Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500)
FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746
Mailing address: Black Box Corporation, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com • E-mail: info@blackbox.com

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We're here to help! If you have any questions about your application or our products, contact Black Box Tech Support at **724-746-5500** or go to **blackbox.com** and click on "Talk to Black Box." You'll be live with one of our technical experts in less than 60 seconds.

Federal Communications Commission and Industry Canada Radio Frequency Interference Statements

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

Instrucciones de Seguridad (Normas Oficiales Mexicanas Electrical Safety Statement)

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc.
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá de lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquear la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico debe ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
 - A: El cable de poder o el contacto ha sido dañado; u
 - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
 - C: El aparato ha sido expuesto a la lluvia; o
 - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
 - E: El aparato ha sido tirado o su cubierta ha sido dañada.

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Chapter 1: Specifications

1. Specifications

RM4001A Cabinet

Finish	Black
Hole-to-Hole Centers	18.3" (48.3 cm)
Material	Front Door: 18-gauge (1.2-mm) steel; Rear Body: 14-gauge (2.0-mm) steel
Dimensions	Exterior Width: 24" (61 cm); Exterior Depth: 30" (76.2 cm); Interior Width: 23.75" (60.3 cm); Interior Depth: 28" (71.1 cm); Maximum Mounting Depth: 22" (55.8 cm)
Weight Capacity	200 lb. (90.72 kg)
Rack Units	12U
Weight	94 lb. (42.6 kg)

RM4002A Fan Tray

Air Flow	46/53 CFM per fan
Bearing Type	Ball bearing
Construction	18-gauge steel (1.2 mm)
Fan Speed	1600/2000 RPM
Finish	Black
Noise	31/33 dBA
Power	115 VAC, 60 Hz
Dimensions	Each: 1.75"H x 12.25"W x 6.25"D (4.5 x 31.2 x 15.9 cm)
Weight	1 lb. (0.5 kg)

RM4003A Filter Tray

Dimensions	5.5"H x 12.25"W x 1.5"D (14 x 31.2 x 1.3 cm)
Weight	0.9 lb. (0.4 kg)

RM4004A Blanking Panel

Dimensions	5.5"H x 12.25"W x 0.25"D (14 x 31.2 x 0.6 cm)
Weight	1 lb. (0.5 kg)

RM4005A Extra Rails

Number of Rack Units	12U high
Weight	2.8 lb. (1.3 kg)

RM4006A 45° Brackets

Dimensions	4.1"H x 1.4"W x 4"D (10.4 x 3.6 x 10.2 cm)
Weight	0.6 lb. (0.3 kg)

RM4007A Shelf, 10-inch (25.4-cm)

Dimensions	3.5"H x 19"W x 10"D (8.9 x 48.3 x 25.4 cm)
Weight	4.7 lb. (2.1 kg)

2. Overview

2.1 Introduction

The Pro Series Wallmount Cabinet holds deep rackmountable equipment. It has adjustable rails for mounting equipment away from the front door while still providing proper cable management in the front and rear of the cabinet.

The cabinet's rear door has several cable access holes. Vented sides enable proper airflow. Plus, the front and rear door are reversible.

You can install up to 200 pounds (90.72 kg) of equipment in the cabinet.

2.2 Features

- 19" rackmount width
- Rounded corners and edges on front door for safety
- Swing-out body for access to the back of installed equipment
- Knockouts sized for 21/ " conduit fittings
- Vented side panels for airflow
- Includes one pair of adjustable depth 19" mounting rails

2.3 What's Included

Your package should include the following items. If anything is missing or damaged, please contact Black Box Technical Support at 724-746-5500 or info@blackbox.com.

RM4001A:

- Wallmount Cabinet
- (1) pair of adjustable depth 19" mounting rails (installed)
- (20) M5 cage nuts
- (20) M5 x 15 cuphead screws
- (8) 1/ " x 2" hexagonal screws
- Mounting template
- (2) pairs of door keys

RM4002A:

- Fan tray assembly
- (4) screws
- (4) nuts

RM4003A:

- Filter tray
- (4) screws
- (4) nuts

RM4004A:

- Blanking panel
- (4) screws
- (4) nuts

RM4005A:

- (2) extra vertical rails
- (4) M5 hexhead screws
- (4) M5 cage nuts

RM4006A:

- (2) 45-degree rails
- (4) nuts

RM4007A:

- 10-inch shelf
- (4) cuphead screws
- (4) cage nuts

PRO SERIES WALLMOUNT CABINET

2.4 Optional Accessories

2.4.1 Fan Tray (RM4002A)

This fan tray provides additional airflow in the cabinet. It mounts on the cabinet's inside side panel. The fan tray has a sticker that shows the airflow direction as configured from the factory.

You can reverse the airflow in the fan tray by removing the two front filter covers, loosening the eight screws, removing the fans and reinstalling them in the opposite-flow position, then reinstalling the eight screws and cover.

2.4.2 Filter Tray (RM4003A)

This internally mounted filter tray blocks out dust and damaging air particles.

NOTE: The filter is NOT NEMA rated.

2.4.3 Blanking Panel (RM4004A)

This is a cover to block one of the side panel ventilation access holes. It mounts on the inside of the cabinet.

2.4.4 Extra Vertical Rails (RM4005A)

Using the included four screws and four cage nuts, this set of two additional internally mounted rails enable you to mount two different pieces of equipment that have different mounting requirements.

2.4.5 45° Rear Mounting Rails (RM4006A)

The RM4006A includes two 45° mounting rails. These rails mount on two of the 12 studs welded into the rear door of the wall-mount cabinet. Install rackmount equipment onto these rails. This keeps the space free in the front of the cabinet.

Section 3.2 describes how to attach the rear mounting rails after the cabinet's attached to the wall.

2.4.6 Shelf, 10-inch (RM4007A)

Using the included four screws and four nuts, this small 10-inch shelf mounts in the front of the cabinet to enclose non-rackmountable equipment in the cabinet.

3. Installation

3.1 Wallmounting the Cabinet

Use the template shown in Figure 3-1 to wallmount the cabinet. Follow the steps listed below:

1. Remove the mounting template from the packaging.
2. Select either a left-side or right-side hinge orientation for the front door.
3. Find wall studs and position the template on the wall.
4. Use a level to check the mounting hole positioning on the wall.
5. Mark the primary mounting hole positions on the wall with a pencil.
6. Drill (4) 1/4" x 2" hexagonal screws into the wall through the primary mounting holes, leaving about 1/8" gap between the wall and the hex screw head.

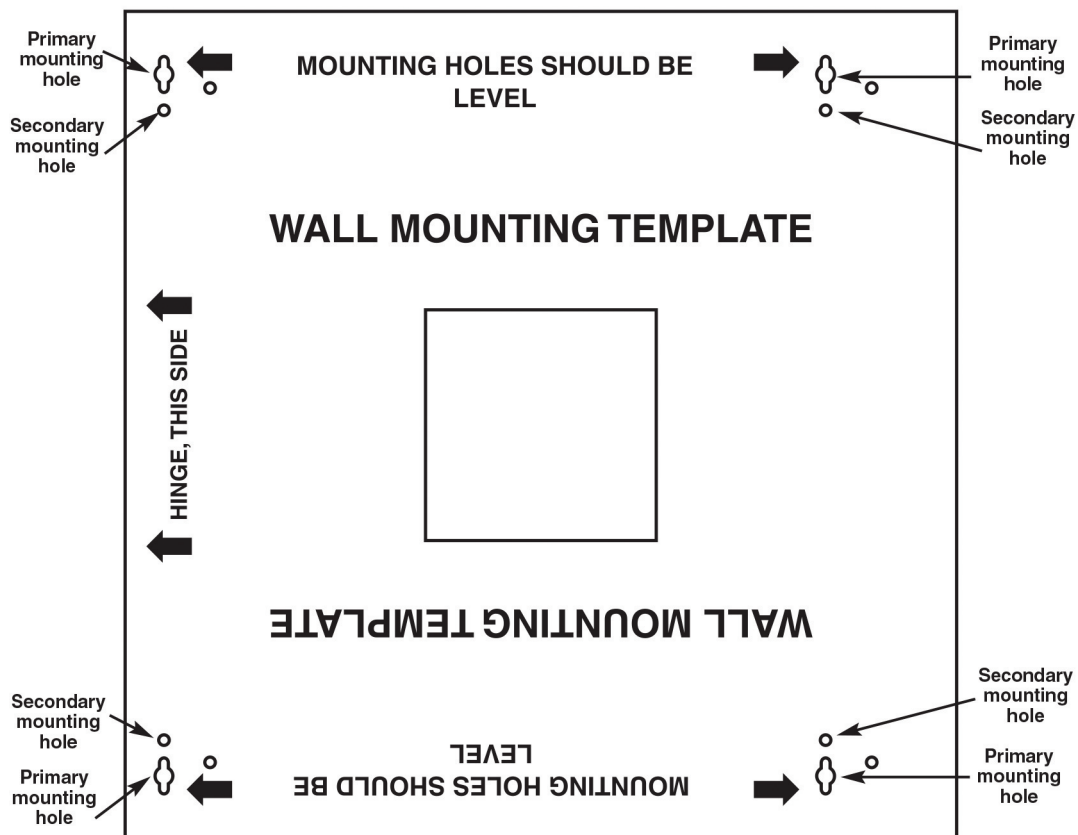


Figure 3-1. Wallmounting template.

7. Position the cabinet with its primary mounting holes flush against the wall. Hang the cabinet on the hex screw heads. Refer to Figure 3-2.
8. Tighten the hexagonal screw heads.
9. Drill (4) 1/4" x 2" hexagonal screws into the wall through the secondary mounting holes.
10. Tighten the hexagonal screw heads.

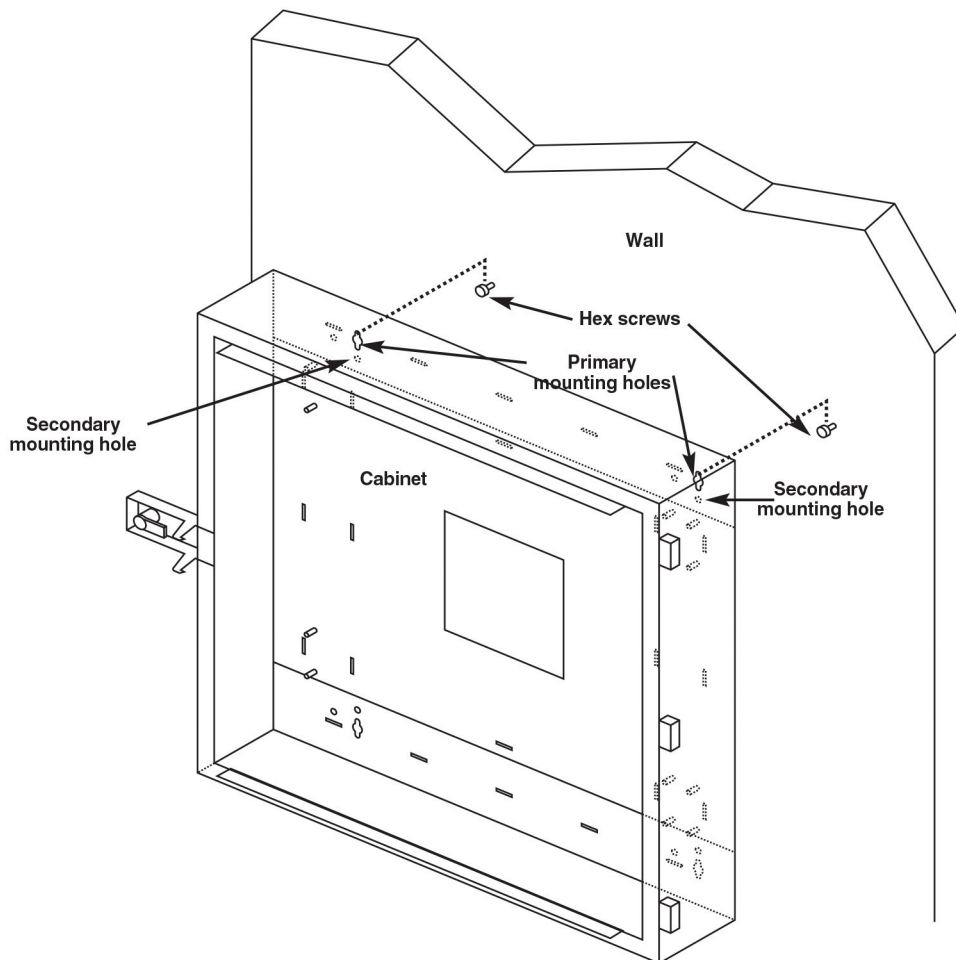


Figure 3-2. Mounting the cabinet on the wall.

Chapter 3: Installation

3.2 Connecting the 45° Rails to the Cabinet After It's Mounted on the Wall

1. Line up the mounting holes on the rails with the studs that are welded to the back of the cabinet.
2. Hang one rail from the pair on two studs on one side of the cabinet.
3. Hang the other rail from the pair on two studs on the other side of the cabinet.
4. Install (2) M5 nuts to the studs to secure each 45° rail to the cabinet.
5. For each pair of rails that you want to install, repeat steps 1–4. You can install up to two pairs of rails.

NOTE: The diagram below shows two pairs of 45° rails mounted in the cabinet.

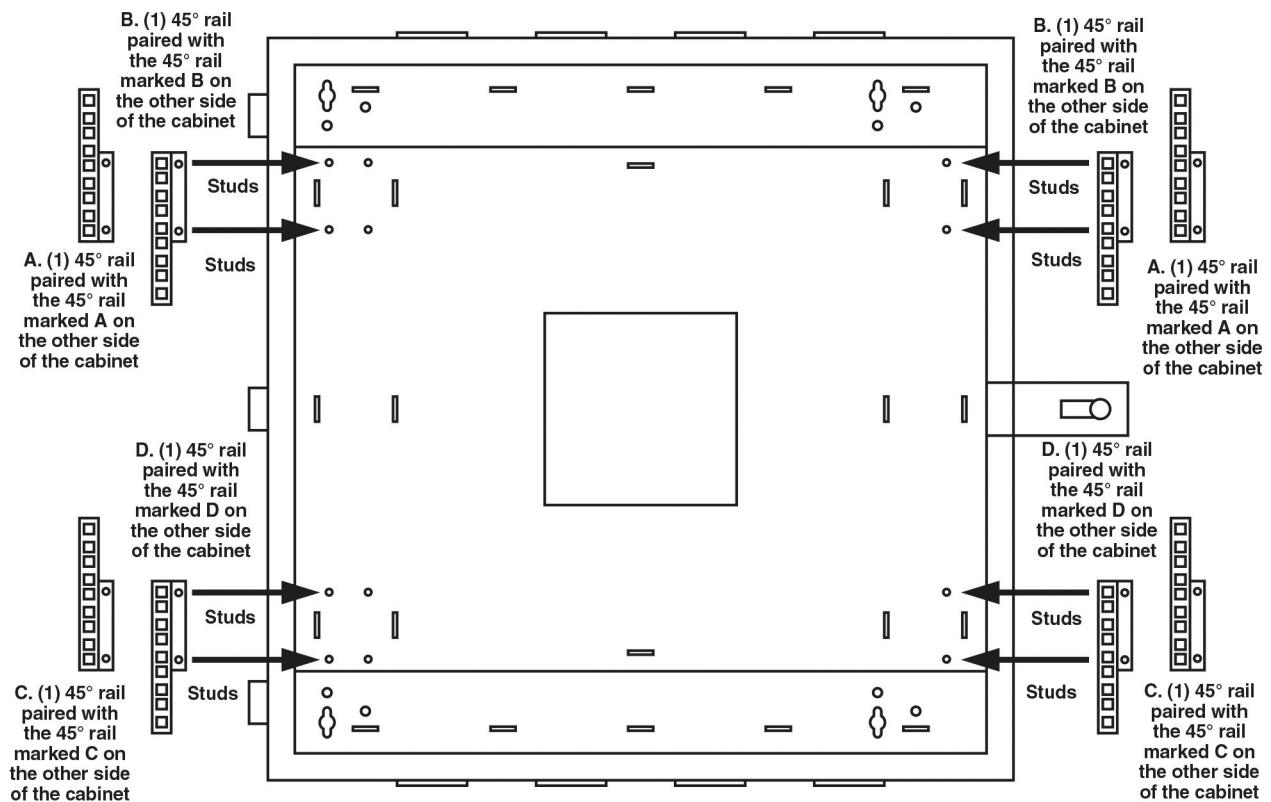


Figure 3-3. Installing two pairs of 45° rails on cabinet after it's mounted to the wall.

NOTE: For details about other optional accessories, see Section 2.4.

4. Troubleshooting

4.1 Contacting Black Box

If you determine that your Pro Series Wallmount Cabinet is malfunctioning, do not attempt to alter or repair the unit. It contains no user-serviceable parts. Contact Black Box Technical Support at 724-746-5500 or info@blackbox.com.

Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description, including:

- the nature and duration of the problem.
- when the problem occurs.
- the components involved in the problem.
- any particular application that, when used, appears to create the problem or make it worse.

4.2 Shipping and Packaging

If you need to transport or ship your Pro Series Wallmount Cabinet:

- Package it carefully. We recommend that you use the original container.
- If you are returning the unit, make sure you include everything you received with it. Before you ship for return or repair, contact Black Box to get a Return Authorization (RA) number.

Black Box Tech Support: FREE! Live. 24/7.

Tech support the
way it should be.



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About Black Box

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