

## Rittal 1280.000

# Rittal 1280.000 Wall-mounted AX Enclosure

## INSTRUCTION MANUAL

### 1. Product Overview

The Rittal 1280.000 Wall-mounted AX Enclosure is a robust carbon steel enclosure designed for industrial and IT infrastructure applications. It features an innovative 25 mm system grid, allowing for flexible and easy installation of internal components and accessories without the need for drilling, thereby maintaining its protection class. This enclosure is suitable for various environments, offering NEMA 1, 3R, 4, and 12 protection.

#### Key Features:

- **Material:** Carbon steel construction.
- **Dimensions:** 47.2 inches (Height) x 31.5 inches (Width) x 11.8 inches (Depth).
- **Protection:** NEMA 1, 3R, 4, 12 rated for environmental protection.
- **System Grid:** Integrated 25 mm system grid for versatile interior finishing.
- **Door:** Features an all-round foamed-in PU seal for enhanced protection.
- **Mounting Plate:** Zinc-plated, measuring 29.3 inches x 46.3 inches.

### 2. Safety Information

Please read and understand all safety instructions before installing or operating the Rittal AX Enclosure. Failure to follow these instructions may result in injury, damage to the product, or voiding of the warranty.

- **Electrical Safety:** Ensure all power is disconnected before working inside the enclosure. Only qualified personnel should perform electrical installations.
- **Weight:** The enclosure weighs approximately 140 pounds. Use appropriate lifting equipment and techniques to prevent injury during handling and installation.
- **Sharp Edges:** Exercise caution when handling the enclosure and its components, as some edges may be sharp. Wear appropriate personal protective equipment (PPE), including gloves.
- **Mounting:** Ensure the mounting surface is structurally sound and capable of supporting the total weight of the enclosure and its contents.

### 3. Package Contents

Upon receiving your Rittal AX Enclosure, carefully inspect the packaging for any signs of damage. Open the package and verify that all components are present:

- Enclosure housing with door(s)
- Flange (gland) plate(s) in the enclosure base
- Mounting plate
- Punched door strip
- Lock: 3 mm double-bit
- Instruction manual and documentation

If any items are missing or damaged, contact Rittal customer support immediately.

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**Video:** Unboxing and initial inspection of the Rittal AX Enclosure, demonstrating the removal of packaging and identification of components.

## 4. Setup and Installation

The Rittal AX Enclosure is designed for straightforward installation. Follow these steps for proper mounting and initial setup:

### 4.1. Wall Mounting

1. **Prepare the Mounting Surface:** Ensure the wall is clean, dry, and capable of supporting the enclosure's weight. Mark the desired mounting points.
2. **Attach Mounting Brackets:** Secure the appropriate mounting brackets (not included, sold separately) to the rear of the enclosure using the designated attachment points.
3. **Lift and Secure:** Carefully lift the enclosure into position. Align the mounting brackets with the marked points on the wall and secure the enclosure using appropriate fasteners. Ensure the enclosure is level and firmly attached.
4. **Verify Stability:** After mounting, gently test the enclosure's stability to confirm it is securely fastened to the wall.

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**Video:** Demonstrates various installation methods for the Rittal AX Enclosure, including wall mounting and pole mounting, highlighting the secure fastening process.

### 4.2. Internal Component Installation

The AX enclosure features an integrated 25 mm system grid for flexible interior finishing. This allows for easy installation and retrofitting of system components and accessories without drilling, preserving the enclosure's protection class.

1. **Access the Interior:** Open the enclosure door using the 3 mm double-bit lock.
2. **Install Mounting Plate:** The zinc-plated mounting plate is pre-installed. If removed for external work, re-install it securely.
3. **Utilize System Grid:** Attach internal rails, mounting plates, and other accessories directly to the embossed enclosure cams in the roof, base, and side sections. Use self-tapping screws for secure fastening while maintaining UL compliance.
4. **Cable Management:** Plan cable routing to ensure proper organization and prevent interference with components or the door seal.

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**Video:** Illustrates the installation of internal components and accessories within the Rittal AX Enclosure, showcasing the flexibility of the 25 mm system grid.

## 5. Operation

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Operating the Rittal AX Enclosure primarily involves accessing its interior for maintenance or modifications. The door is secured with a 3 mm double-bit lock.

1. **Opening the Door:** Insert a 3 mm double-bit key into the lock and turn to unlock. Pull the door open.
2. **Closing the Door:** Push the door firmly shut until it engages with the frame. Turn the key to lock the door. Ensure the door is fully closed and locked to maintain the specified protection class.



**Image:** Front view of the Rittal AX Enclosure, showing the door and the 3 mm double-bit lock mechanism.

## 6. Maintenance

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Regular maintenance ensures the longevity and continued protection offered by your Rittal AX Enclosure.

- **Cleaning:** Clean the exterior surfaces with a soft cloth and mild detergent. Avoid abrasive cleaners or solvents that could damage the textured paint finish.
- **Seal Inspection:** Periodically inspect the all-round foamed-in PU seal on the door for any signs of wear, cracks, or damage. A compromised seal can reduce the enclosure's protection rating. Replace damaged seals promptly.
- **Lock Mechanism:** Lubricate the lock mechanism annually with a suitable lubricant to ensure smooth operation.
- **Fastener Check:** Periodically check all mounting fasteners and internal component fasteners for tightness. Re-tighten as necessary.

## 7. Troubleshooting

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This section addresses common issues you might encounter with your Rittal AX Enclosure.

- **Issue:** Door does not close or seal properly.  
**Solution:** Check the door seal for obstructions or damage. Ensure the hinges are properly aligned and the lock mechanism is functioning correctly.
- **Issue:** Enclosure feels unstable after mounting.  
**Solution:** Verify that all mounting fasteners are securely tightened and that the wall or mounting surface is adequate for the load. Consult a structural engineer if concerns persist.
- **Issue:** Difficulty installing internal components.  
**Solution:** Ensure you are using compatible Rittal system accessories designed for the 25 mm grid. Refer to the specific accessory's instructions for proper installation.

## 8. Specifications

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Detailed technical specifications for the Rittal 1280.000 Wall-mounted AX Enclosure:

| Attribute                           | Specification           |
|-------------------------------------|-------------------------|
| Model Number                        | 1280.000                |
| Material                            | Carbon Steel            |
| Dimensions (H x W x D)              | 47.24" x 31.5" x 11.81" |
| Mounting Plate Dimensions           | 29.3" x 46.3"           |
| Material Thickness (Door)           | 0.08"                   |
| Material Thickness (Enclosure)      | 0.06"                   |
| Material Thickness (Mounting Plate) | 0.1"                    |
| Protection Rating                   | NEMA 1, 3R, 4, 12       |
| Color                               | Light Gray              |
| Weight                              | 140 Pounds              |



**Image:** A perspective view of the Rittal 1280.000 Wall-mounted AX Enclosure, showcasing its overall design and light gray finish.

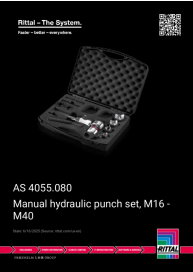



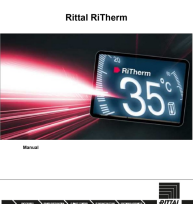

## 9. Warranty and Support

Rittal products are manufactured to high-quality standards. For warranty information, technical support, or to purchase replacement parts and accessories, please visit the official Rittal website or contact your local Rittal distributor.

**Manufacturer:** Rittal LLC

**First Available:** October 16, 2021

For further assistance, refer to the contact information provided on the [Rittal Store on Amazon](#).

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|     | <p><a href="#">Rittal AS 4055.080 Manual Hydraulic Punch Set M16-M40   Technical Specifications</a></p> <p>Detailed technical specifications and features for the Rittal AS 4055.080 manual hydraulic punch set, designed for M16 to M40 threads and sheet steel up to 3mm thick. Includes supply contents and dimensional data.</p>  |
|    | <p><a href="#">Rittal Speed Control EC 3235.460: Assembly and Operating Instructions</a></p> <p>Official assembly and operating instructions for the Rittal Speed Control EC unit (Model 3235.460). Covers application, safety, functional description, electrical connection, technical data, and warranty for Rittal enclosure climate control systems.</p>                                     |
|    | <p><a href="#">Rittal Blue e+ Refrigeradores para Armarios de Distribución: Manual de Instalación y Operación</a></p> <p>Manual de Rittal que detalla el montaje, instalación y operación de los refrigeradores Blue e+ para armarios de distribución (modelos SK 3178800 a SK 3184840), incluyendo seguridad, especificaciones y mantenimiento.</p>  |
|  | <p><a href="#">Rittal One-Piece Consoles: Assembly and Operating Instructions</a></p> <p>Comprehensive assembly and operating instructions for Rittal's one-piece consoles (TP series), covering safety, installation, maintenance, and technical specifications. Includes guidance for various models like TP 6746.600, TP 6748.600, TP 6740.600, and TP 6742.600.</p>                           |
|  | <p><a href="#">Rittal RiTherm Manual: Climate Control Planning Software</a></p> <p>A comprehensive manual for Rittal RiTherm, a free software tool for enclosure climate control planning, including features for energy-efficiency calculation, CO2 footprint analysis, and F-gas information.</p>   |
|  | <p><a href="#">Rittal SK 3114.200 Digital Enclosure Internal Temperature Display and Thermostat</a></p> <p>Technical specifications and features of the Rittal SK 3114.200, a digital enclosure internal temperature display and thermostat with a three-digit, 7-segment display, NTC sensor, and two relay outputs. Includes operating temperature, setting range, and voltage information.</p> |