

Hoffman CSD12126

Hoffman CSD12126 Wall-Mount Enclosure Instruction Manual

Model: CSD12126 | NEMA 4/12 Steel Enclosure

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of the Hoffman CSD12126 Wall-Mount Enclosure. The CSD12126 is a NEMA Type 4/12 rated steel enclosure designed to protect electrical and electronic components in various industrial environments. Adherence to these instructions will ensure optimal performance and longevity of the product.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation, operation, and maintenance:

- **Qualified Personnel:** Installation and servicing should only be performed by qualified and authorized personnel familiar with electrical equipment and local electrical codes.
- **Power Disconnection:** Ensure all power to the equipment being installed or serviced within the enclosure is disconnected and locked out before beginning any work.
- **Proper Grounding:** Ensure the enclosure is properly grounded in accordance with all applicable electrical codes.
- **Component Weight:** Be aware of the weight of internal components to prevent injury during installation.
- **Environmental Conditions:** Do not exceed the specified environmental ratings of the enclosure.

3. PRODUCT OVERVIEW

The Hoffman CSD12126 is a robust wall-mount enclosure constructed from steel, designed for industrial applications requiring protection against dust, dirt, oil, and water. Its NEMA 4/12 rating ensures suitability for both indoor and outdoor use where protection against falling dirt, circulating dust, lint, fibers, splashing water, hose-directed water, and external ice formation is required.

Key Features:

- Constructed from 14, 16, or 18 gauge steel, depending on size.

- Continuously welded and ground smooth seams for enhanced protection.
- Corner-formed doors for structural integrity.
- Simple, easy-to-remove and install hinge pins with built-in captivation clips.
- High-torque threadless studs and fasteners on the door for secure closure.



Figure 1: Hoffman CSD Series Wall-Mount Enclosures. This image displays several Hoffman CSD series wall-mount enclosures. The foreground shows a smaller enclosure with its door open, revealing the interior. In the background, larger enclosures are visible, demonstrating the product line's versatility in size. All enclosures are gray steel.

4. SPECIFICATIONS

Attribute	Value
Model Number	CSD12126 (HFCSD12126)
Dimensions (H x W x D)	12.00" x 12.00" x 6.00" (Product: 6 x 12 x 12 inches)
Material	Alloy Steel
Finish Type	Steel, Gray

Attribute	Value
NEMA Rating	Type 4/12
Installation Type	Wall Mount
Weight	Approximately 12 Pounds

5. SETUP AND INSTALLATION

Proper installation is crucial for maintaining the NEMA rating and ensuring the protection of internal components.

5.1 Pre-Installation Checks:

- Inspect the enclosure for any shipping damage.
- Verify that all necessary mounting hardware (not included) is available and suitable for the wall material.
- Ensure the installation location is clean, dry, and free from obstructions.

5.2 Wall Mounting Procedure:

1. **Determine Mounting Location:** Select a sturdy wall surface capable of supporting the enclosure's weight plus the weight of its contents.
2. **Mark Mounting Points:** Use the enclosure's mounting holes as a template to mark the drilling locations on the wall. Ensure the marks are level.
3. **Drill Pilot Holes:** Drill pilot holes appropriate for your chosen mounting hardware.
4. **Secure Enclosure:** Carefully lift the enclosure into position and secure it to the wall using appropriate fasteners (e.g., lag bolts, anchors). Ensure all mounting points are tightened securely to prevent movement.
5. **Internal Component Installation:** Install internal components as required, ensuring proper wire management and clearances.
6. **Seal Integrity:** Before closing, ensure the door gasket is clean and properly seated to maintain the NEMA rating.

6. OPERATION

The Hoffman CSD12126 enclosure is designed for passive protection of internal components. Its primary operation involves securing the door to maintain environmental integrity.

- **Door Closure:** To close the door, ensure all internal components are clear of the door path and the gasket. Close the door firmly and engage the high-torque threadless studs and fasteners. Tighten them evenly to compress the gasket and achieve a proper seal.
- **Access:** To open the door, loosen the fasteners and carefully open the door. Be mindful of any internal wiring or components.
- **Security:** For added security, ensure any locking mechanisms (if installed) are engaged.

7. MAINTENANCE

Regular maintenance helps preserve the enclosure's protective qualities and extends its service life.

- **Periodic Inspection:** Regularly inspect the enclosure for signs of damage, corrosion, or wear, especially on the door gasket, hinges, and latches.
- **Gasket Integrity:** Check the door gasket for cracks, tears, or compression set. A damaged gasket can compromise the NEMA rating. Replace if necessary.

- **Cleaning:** Clean the exterior of the enclosure with a mild detergent and water. Avoid abrasive cleaners or solvents that could damage the finish. Ensure the gasket sealing surface is clean and free of debris.
- **Hinges and Fasteners:** Ensure hinges operate smoothly and fasteners are secure. Lubricate hinges if needed with a suitable lubricant.
- **Internal Inspection:** Periodically open the enclosure (after disconnecting power) to inspect internal components for dust, moisture, or signs of overheating.

8. TROUBLESHOOTING

This section addresses common issues that may arise with the enclosure.

- **Issue:** Water or dust ingress.
Solution: Inspect the door gasket for damage or improper seating. Ensure all door fasteners are tightened evenly and sufficiently. Check for any unsealed cable entry points.
- **Issue:** Door does not close or latch properly.
Solution: Check hinges for damage or misalignment. Ensure no internal components are obstructing the door's closure. Verify that the door fasteners are not stripped or damaged.
- **Issue:** Enclosure feels unstable on the wall.
Solution: Re-check all mounting hardware for tightness. Ensure the wall surface is structurally sound and the correct type of fasteners were used for the wall material.
- **Issue:** Corrosion on the enclosure surface.
Solution: Clean the affected area and apply a suitable industrial-grade protective coating if necessary. Ensure the enclosure is not exposed to chemicals or environments beyond its NEMA rating.

9. WARRANTY AND SUPPORT

For specific warranty information, technical support, or to purchase replacement parts, please refer to the official Hoffman website or contact Hoffman customer service directly. Keep your purchase receipt and model number (CSD12126) handy when contacting support.