



Manuals.plus /

› Thermal Edge /

› Thermal Edge Model NE0802364X Electrical Enclosure Air Conditioner User Manual

Thermal Edge NE0802364X

Thermal Edge Model NE0802364X Electrical Enclosure Air Conditioner User Manual

Model: NE0802364X | Brand: Thermal Edge

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, maintenance, and troubleshooting of your Thermal Edge Model NE0802364X Electrical Enclosure Air Conditioner. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage to the unit or injury to personnel. The Thermal Edge NE0802364X is an indoor/outdoor enclosure air conditioner designed to cool electrical enclosures, providing 8,000 BTUH of cooling capacity. It operates on a 230 VAC/60 Hz power supply and features a narrow body suitable for 12-inch wide enclosures. Its NEMA Type 4 rating ensures protection against various environmental elements, including dirt, dust, rain, sleet, snow, splashing water, and hose-directed water. Key features include an active condensate evaporation system, a programmable digital controller with alerts, and a robust design for durability and ease of maintenance.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power before servicing.

- Ensure all electrical connections comply with local and national electrical codes.
- Only qualified personnel should perform installation, maintenance, and repair.
- Do not operate the unit if any components are damaged.
- Keep hands and tools clear of moving parts and electrical components.
- Proper grounding is essential to prevent electrical shock.
- Wear appropriate personal protective equipment (PPE) during installation and servicing.

3. SETUP AND INSTALLATION

The Thermal Edge NE0802364X is designed for easy integration with electrical enclosures. Follow these steps for proper setup:

3.1 Unpacking and Inspection

Carefully remove the unit from its packaging. Inspect for any shipping damage. Report any damage to the carrier immediately. Verify all components are present according to the packing list.

3.2 Mounting the Unit

The unit is designed for external mounting on an enclosure. Ensure the mounting surface is flat and capable of supporting the unit's weight (approximately 98 pounds). Use appropriate hardware to secure the unit firmly to the enclosure. The narrow body style is designed to fit on a 12-inch wide enclosure.



Figure 1: Thermal Edge Model NE0802364X Electrical Enclosure Air Conditioner. This image shows the full unit, highlighting its tall, narrow profile, the digital display on the front, and the louvered vents on the side for airflow.

3.3 Electrical Connections

Connect the unit to a dedicated 230 VAC, 60 Hz power supply. Ensure the circuit breaker is appropriately sized for the unit's electrical requirements. Refer to the specifications section for detailed electrical ratings. All wiring must be performed by a licensed electrician and conform to all applicable electrical codes.

- Verify power supply voltage matches unit requirements.
- Ensure proper grounding.
- Secure all wiring connections.

4. OPERATING INSTRUCTIONS

The NE0802364X features a programmable digital controller for precise temperature management.

4.1 Initial Power-Up

Once electrical connections are complete, turn on the power supply to the unit. The digital display will illuminate, showing the current enclosure temperature. The unit may undergo a brief self-test sequence.

4.2 Digital Controller Operation

The digital controller allows for setting the desired temperature (set point) and monitoring the unit's status. It also provides visible error and alarm messaging.

- **Setting Temperature:** Use the up/down arrows on the controller to adjust the desired temperature set point. Press 'Enter' or wait for the display to revert to confirm.
- **Status Indicators:** The display will show various icons or messages indicating compressor operation, fan operation, and alarm conditions.
- **Keypad Lockout:** The controller features a keypad lockout function to prevent unauthorized changes to settings. Refer to the full controller manual (if provided separately) for lockout/unlock procedures.

4.3 Condensate Management

The unit is equipped with an active condensate evaporation system. This system eliminates condensate by evaporating it and venting it, thus removing the need for a separate drip line. This process also precools the refrigerant, contributing to energy efficiency.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your air conditioner. Always disconnect power before performing any maintenance.

5.1 Filter Cleaning/Replacement

The unit utilizes air filters to prevent dust and debris from entering the cooling system. Inspect filters monthly and clean or replace as necessary. Dirty filters reduce cooling efficiency and can lead to unit overheating.

- Locate the filter access panel (typically on the side or front).
- Remove the old filter.
- Clean reusable filters with mild soap and water, or replace with a new filter of the same type.
- Ensure the filter is completely dry before reinstallation.

5.2 Coil Cleaning

Periodically inspect the condenser and evaporator coils for dirt and debris accumulation. Clean coils with a soft brush or vacuum cleaner. For stubborn dirt, a coil cleaner designed for HVAC systems may be used. Ensure coils are dry before restoring power.

5.3 General Inspection

Annually, or more frequently in dusty environments, perform a general inspection:

- Check for loose electrical connections.
- Inspect fan blades for damage or obstruction.
- Verify proper drainage of the condensate system (though it's evaporative, ensure no blockages).
- Check for any unusual noises or vibrations during operation.

6. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, or if issues persist, contact Thermal Edge customer support.

Problem	Possible Cause	Solution
Unit not cooling	No power; Dirty air filter; Blocked coils; Low refrigerant; Compressor issue.	Check power supply and circuit breaker; Clean/replace filter; Clean coils; Contact qualified technician for refrigerant or compressor issues.
Unit running constantly	Set point too low; Enclosure heat load too high; Dirty coils/filter.	Adjust set point; Reduce heat sources within enclosure; Clean coils and filter.
Excessive noise/vibration	Loose mounting; Fan obstruction; Compressor issue.	Check mounting bolts; Clear fan area; Contact qualified technician.
Digital display shows error code	Specific system fault (e.g., high/low pressure, sensor error).	Note the error code and refer to the controller's specific manual or contact customer support with the code.

7. SPECIFICATIONS

Detailed technical specifications for the Thermal Edge Model NE0802364X Electrical Enclosure Air Conditioner:

Model Number: NE0802364X

Cooling Capacity: 8,000 BTUH

Voltage: 230 Volts AC

Frequency: 60 Hz

NEMA Rating: Type 4 (Indoor/Outdoor)

Refrigerant: R 410A

Product Dimensions (H x W x D): 36 x 15.02 x 11.8 inches

Item Weight: 98 pounds

Control Method: Remote (via digital controller)

Installation Type: Split System (refers to the internal cooling cycle, not a separate outdoor unit)

Certifications: UL Listed

Manufacturer: Thermal Edge Inc.

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact Thermal Edge Inc. directly. Thermal Edge products are manufactured with high-quality standards and are typically backed by a manufacturer's warranty.

Customer Support

If you require technical assistance, have questions about installation, operation, or maintenance, or need to report a problem, please contact Thermal Edge customer support. Have your model number (NE0802364X) and serial number ready when contacting support.

You can often find contact information on the manufacturer's official website or through your point of purchase. For general inquiries, you may visit the Thermal Edge Store on Amazon.

