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› Thermal Edge Model NE0501264X Electrical Enclosure Air Conditioner User Manual

## Thermal Edge NE0501264X

# Thermal Edge Model NE0501264X Electrical Enclosure Air Conditioner User Manual

Model: NE0501264X | Brand: Thermal Edge

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Thermal Edge Model NE0501264X Electrical Enclosure Air Conditioner. This unit is designed to cool air at 5,000 BTU per hour and operates on a 120 VAC/60 Hz power supply. It features a narrow body suitable for 12-inch wide enclosures and a sloped top for water runoff. The NEMA Type 4X enclosure offers corrosion resistance and protection against various environmental elements. Please read this manual thoroughly before installation or operation.



*A full view of the Thermal Edge Model NE0501264X Electrical Enclosure Air Conditioner, a tall, narrow,*

light gray unit with a sloped top. The front features the 'Thermal Edge Inc.' logo and a digital display. Vents are visible on the right side of the unit.

## 2. SAFETY INFORMATION

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Always adhere to local and national electrical codes during installation and maintenance. Ensure the power supply is disconnected before performing any service or maintenance. Only qualified personnel should install, operate, or service this equipment. Failure to follow safety instructions may result in property damage, injury, or death. Do not operate the unit if any components are damaged.

## 3. PRODUCT FEATURES

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- **Digital Temperature Controller:** Features a programmable set point and temperature controls, visible error and/or alarm messaging, system status indication, and keypad lockout function.
- **Active Condensate Evaporation System:** Ensures constant elimination of condensate and increases unit efficiency by pre-cooling refrigerant.
- **Key Design Features:** Constructed with a rigid chassis and seam-welded shroud. Thoughtful interior design facilitates easy maintenance.
- **Unit Efficiency:** Incorporates a highly efficient rotary compressor, a fully insulated and sealed cabinet, and a Thermal Expansion Valve to maintain cooling capacity across a broad ambient temperature range.
- **Compressor Protection System:** Includes high and low refrigerant pressure cutouts with fault indication, compressor anti-short cycle protection, and compressor run capacitors to reduce power inrush, save energy, and increase compressor life.

## 4. SETUP AND INSTALLATION

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The Thermal Edge Model NE0501264X is designed for indoor/outdoor enclosure applications. Proper mounting and sealing are crucial for maintaining the NEMA Type 4X rating. Ensure adequate clearance for airflow around the unit. Consult the detailed installation instructions provided with the packaging for specific mounting templates, electrical connections, and sealing procedures. Professional installation is recommended to ensure optimal performance and safety.

## 5. OPERATING INSTRUCTIONS

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Once installed and powered, the unit's digital controller allows for precise temperature management. Refer to the controller's specific programming guide for setting desired temperatures, viewing system status, and understanding alarm messages. The unit will automatically cycle to maintain the set temperature within the enclosure. Ensure the keypad lockout function is utilized to prevent unauthorized changes to settings.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficiency of your air conditioner. Disconnect power before any maintenance. Key maintenance tasks include:

- **Filter Cleaning/Replacement:** Periodically inspect and clean or replace air filters to ensure proper airflow and cooling efficiency.
- **Coil Cleaning:** Keep condenser and evaporator coils free of dust and debris.

- **Drainage System Check:** Verify that the condensate evaporation system is functioning correctly and that there are no blockages.
- **Visual Inspection:** Regularly check for any signs of wear, damage, or loose connections.

## 7. TROUBLESHOOTING

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If the unit is not operating as expected, consider the following common issues:

- **No Power:** Check the power supply, circuit breaker, and all electrical connections.
- **Insufficient Cooling:** Ensure filters and coils are clean, and there is no obstruction to airflow. Verify the temperature settings on the digital controller.
- **Alarm Codes:** Refer to the digital controller's manual for specific alarm code interpretations and recommended actions.
- **Excessive Noise:** Inspect for loose components or obstructions in the fan.

For issues not resolved by these steps, contact qualified service personnel.

## 8. SPECIFICATIONS

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Specification	Detail
Model Number	NE0501264X
Cooling Capacity	5,000 BTUH
Power Supply	120 VAC / 60 Hz
Enclosure Type	NEMA Type 4X
Product Dimensions	15.02 x 11.8 x 36 inches
Item Weight	97 Pounds
Manufacturer	Thermal Edge Inc.
First Available	July 24, 2018

## 9. WARRANTY AND SUPPORT

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For information regarding product warranty, technical support, or service, please refer to the documentation included with your purchase or visit the official Thermal Edge website. Contact details for customer support are typically available on the manufacturer's website or through your authorized distributor.