

## 1HVAC UDXC-60

# Reznor UDXC-60 Natural Gas Unit Heater Instruction Manual

Model: UDXC-60

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Reznor UDXC-60 Natural Gas Unit Heater. The UDXC-60 is a 60,000 BTU unit designed for indoor use in various commercial, industrial, or residential spaces such as garages, workshops, and warehouses.



Image 1.1: Front view of the Reznor UDXC-60 Natural Gas Unit Heater.

Please read this manual thoroughly before attempting to install, operate, or service the unit. Retain this manual for future reference.

## 2. SAFETY INFORMATION

---

**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- This appliance must be installed by a qualified installer or service agency.
- Ensure adequate ventilation is provided for combustion air and proper exhaust of flue gases.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Carbon Monoxide (CO) poisoning can occur if the heater is not properly installed and vented. Install carbon monoxide detectors in the area where the heater is located.
- Always turn off the gas supply and electrical power to the unit before performing any service or maintenance.

## 3. PRODUCT FEATURES

---

The Reznor UDXC-60 unit heater is engineered for reliable and efficient heating, incorporating several advanced features:

- **High Performance:** Rated for 60,000 BTU with an 83% thermal efficiency rating.
- **Durable Construction:** Features a TCORE2 titanium-stabilized aluminized steel heat exchanger for extended lifespan.
- **Advanced Combustion:** Patented single-burner combustion system.
- **Integrated Controls:** Equipped with an integrated circuit board, a 7-segment display for diagnostics, a built-in disconnect switch, and a status-indicating LED.
- **Quiet Operation:** Designed with a low static propeller fan and vibration-isolated fan and venter motors for reduced noise.
- **Mounting Versatility:** Threaded-nut retainers at four suspension points allow for ceiling or wall mounting (mounting hardware sold separately).
- **External Connections:** External gas connection and external terminal strip for 24V wiring simplify installation and maintenance.
- **ETL Approved:** Certified for safety and performance.



## Reznor Model UDXC-60 Unit Heater

### Standard Features:

- ⚡ 83% AFUE Efficiency
- 🛡 Multi-Try Direct Spark Ignition with Time Lockout
- 完整热交換器 (TCORE2 Titanium-Stabilized Aluminized Steel Heat Exchanger)
- 🔊 Low Noise Operation with Vibration-Isolated Fan and Venter Motors

Image 3.1: Overview of standard features including efficiency, heat exchanger, and quiet operation.

## Standard Features:

- 💡 Status-Indicating LED Light
- 🔧 7-Segment Display Board for Simple Troubleshooting
- ⚙️ 2- and 4-Point Suspension Options
- gas External Gas Connection for Ease of Maintenance and Installation
- ✓ ETL Approved



Image 3.2: Additional features such as status LED, display board, suspension options, and external gas connection.

## 4. SETUP AND INSTALLATION

Installation of this natural gas unit heater must be performed by a qualified professional in accordance with all local codes and ordinances, as well as national standards such as NFPA 54 (National Fuel Gas Code) and NFPA 70 (National Electrical Code).

### 4.1 Mounting

The UDXC-60 is designed for ceiling or wall mounting. It features threaded-nut retainers at four suspension points. Appropriate mounting brackets and hardware must be purchased separately and selected based on the installation location and structural requirements.

## Compact & Durable Heating

- Ideal for smaller residential garages, workshops, and workspaces
- Suitable for ceiling or wall mounting with multiple venting options
- Built with corrosion-resistant materials for enhanced durability
- Advanced fan design ensures quiet and efficient heating



All UDXC Sizes are Certified for Commercial / Industrial Use, 30k-120k BTU Units Also Approved for Residential Garages & Workshops

Image 4.1: Example of a Reznor unit heater installed in a workshop environment.

### 4.2 Venting

The unit includes a vertical Category 1 double wall B-vent kit for venting exhaust gases out of a roof. Ensure the vent system is installed correctly to prevent flue gas spillage and ensure proper combustion.

- The included kit typically contains: 1x Reznor CCI Vent Cap, 1x Draft Hood Connector, 2x 12" Length Straight Pipe, 2x 24" Length Straight Pipe, 2x 60° Adjustable Elbow, 1x 90° Adjustable Elbow, 1x Roof Flashing (up to 5/12 Pitch), and 1x 4" Diameter Storm Collar.
- Refer to the detailed instructions provided with the vent kit for proper assembly and installation.

## VENTING OPTIONS: VERTICAL CATEGORY I VENT KIT



### 4" Diameter - Double Wall B-Vent

- 1x Reznor CC1 Vent Cap
- 1x Draft Hood Connector
- 2x 12" Length Straight Pipe
- 2x 24" Length Straight Pipe
- 2x 60° Adjustable Elbow
- 1x 90° Adjustable Elbow
- 1x Roof Flashing (up to 5/12 Pitch)
- 1x 4" Diameter Storm Collar

These kits will cover most venting applications, however every installation is unique. Select the Vertical or Horizontal Kit to include the respective items.  
**NO VENT KIT WILL BE INCLUDED IF YOU SELECT "NO THANK YOU"**

Image 4.2: Components of the vertical Category I B-vent kit.

### 4.3 Gas and Electrical Connections

Connect the natural gas supply to the external gas connection point on the unit. All gas piping must comply with local codes and be leak-tested after installation. The unit requires a 24V electrical supply, connected via the external terminal strip. Ensure all wiring is correctly sized and protected.



Image 4.3: Diagram illustrating simplified installation features including external connections and internal components.

## 5. OPERATING INSTRUCTIONS

Once properly installed and connected, the Reznor UDXC-60 heater is designed for straightforward operation.

### 5.1 Initial Startup

1. Ensure the gas supply valve to the unit is open.
2. Turn on the electrical power to the unit.
3. Set the thermostat to the desired temperature. The unit will initiate its ignition sequence.

### 5.2 Heating Flexibility

The single-burner design offers two BTU outputs, allowing for efficient heating across various temperature conditions. The unit automatically adjusts to provide high fire for colder days and low fire for milder temperatures.

### 5.3 Air Circulation

The low static pressure axial fan and power venting system ensure effective air circulation and minimize heat loss, distributing warmth evenly throughout the space.

## 6. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your Reznor UDXC-60 heater. All maintenance should be performed by a qualified service technician.

- **Annual Inspection:** Have the unit inspected annually by a qualified technician. This includes checking the heat exchanger, burner, ignition system, and venting.
- **Cleaning:** Keep the area around the heater clear of obstructions. Periodically clean the exterior of the unit and ensure the fan blades are free of dust and debris.

- **Filter Replacement:** If your installation includes an air filter, inspect and replace it regularly as per manufacturer recommendations.

## 7. TROUBLESHOOTING

The UDXC-60 features a 7-segment display board and a status-indicating LED to assist with troubleshooting. Refer to the unit's diagnostic codes for specific issues.

- **No Heat:** Check if the thermostat is set correctly, if the gas supply is open, and if electrical power is supplied to the unit. Consult the LED and display for error codes.
- **Unusual Noises:** Ensure the unit is securely mounted and free from obstructions. If noises persist, contact a service technician.
- **Pilot Light Out (if applicable):** Follow the relighting instructions on the unit or in the full manufacturer's manual.

For complex issues or if you are unsure about a problem, contact a qualified HVAC service technician.

## 8. SPECIFICATIONS

Key technical specifications for the Reznor UDXC-60 Natural Gas Unit Heater:

Specification	Detail
Brand	1HVAC (Reznor)
Model Number	UDXC-60
BTU Rating	60,000 BTU
Thermal Efficiency	83%
Fuel Type	Natural Gas
Indoor/Outdoor Usage	Indoor
Form Factor	Ceiling Mount
Product Dimensions (D x W x H)	32.72" x 27" x 16.75"
Heat Exchanger Material	TCORE2 Titanium-Stabilized Aluminized Steel
Fan Type	Low Static Propeller Fan
Number of Speeds	2
Venting Included	Vertical Category 1 B-Vent Kit
Certifications	ETL Approved

# 60,000 BTU



Image 8.1: Dimensional overview of the Reznor UDXC-60 unit heater.

## 9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the official warranty statement provided by Reznor or 1HVAC at the time of purchase. Warranty terms typically cover defects in materials and workmanship for a specified period.

For technical support, service, or to inquire about replacement parts, please contact the manufacturer or your authorized dealer. Ensure you have your model number (UDXC-60) and serial number available when contacting support.