

## 1HVAC UDXC-150

# Reznor UDXC-150 150,000 BTU Natural Gas Heater User Manual

Model: UDXC-150 | Brand: 1HVAC

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Reznor UDXC-150 150,000 BTU Natural Gas Heater. Please read this manual thoroughly before attempting any installation, operation, or maintenance procedures. Retain this manual for future reference.

## 2. SAFETY INFORMATION

Your safety and the safety of others are paramount. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read and understand all instructions before proceeding.

### 2.1 General Safety Warnings

- Always ensure the heater is installed by a qualified professional in accordance with all local codes and regulations.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Keep the area around the heater clear and free from combustible materials.
- Never operate the heater if any part has been submerged in water. Immediately call a qualified service technician to inspect the heater and replace any part of the control system and any gas control that has been submerged in water.

### 2.2 Gas Safety

- This heater is designed for natural gas only. Do not attempt to convert it to another fuel type.
- If you smell gas:
  - a. Do not try to light any appliance.
  - b. Do not touch any electrical switch; do not use any phone in your building.
  - c. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - d. If you cannot reach your gas supplier, call the fire department.
- Ensure proper ventilation is maintained as specified in the installation instructions to prevent carbon monoxide buildup.

## 2.3 Electrical Safety

- Disconnect all electrical power to the heater before performing any service or maintenance.
- Ensure the heater is properly grounded according to local electrical codes.
- All electrical wiring must be performed by a qualified electrician.

## 3. PRODUCT OVERVIEW

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The Reznor UDXC-150 is a 150,000 BTU commercial natural gas unit heater designed for spaces such as garages, workshops, and warehouses. It features an 83% thermal efficiency rating and is built for durability and quiet operation.



Image 3.1: Front view of the Reznor UDXC-150 Natural Gas Heater.

### 3.1 Key Features

- **High Thermal Efficiency:** Achieves an 83% thermal efficiency rating.
- **Durable Heat Exchanger:** Equipped with a TCORE2 titanium-stabilized aluminized steel heat exchanger for extended lifespan.
- **Quiet Operation:** Features a low static propeller fan and vibration-isolated fan and venter motors.
- **Advanced Ignition:** Multi-Try Direct Spark Ignition with Time Lockout.
- **Integrated Controls:** Integrated circuit board with a 7-segment display for diagnostics and a status-indicating LED.
- **Built-in Disconnect:** For enhanced safety during maintenance.
- **Mounting Versatility:** Threaded-nut retainers at four suspension points for ceiling or wall mounting (mounting hardware sold separately).
- **External Gas Connection:** Designed for ease of maintenance and installation.
- **ETL Approved:** Certified for safety and performance.



The image shows a white, rectangular Reznor Model UDXC-150 Unit Heater mounted on a wall. The heater has a black front panel with horizontal slats and a red accent line. The Reznor logo is visible on the side. The background is a light-colored wall with some pipes.

## Reznor Model UDXC-150 Unit Heater

Standard Features:

-  83% AFUE Efficiency
-  Multi-Try Direct Spark Ignition with Time Lockout
-  TCORE2 Titanium-Stabilized Aluminized Steel Heat Exchanger
-  Low Noise Operation with Vibration-Isolated Fan and Venter Motors

Image 3.2: Diagram highlighting standard features of the Reznor UDXC-150 Unit Heater, including 83% AFUE Efficiency, TCORE2 Heat Exchanger, Multi-Try Direct Spark Ignition, and Low Noise Operation.

## Standard Features:

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



Image 3.3: Diagram illustrating additional features such as Status-Indicating LED Light, 7-Segment Display Board, 2- and 4-Point Suspension Options, External Gas Connection, and ETL Approval.



## Compact & Durable Heating

- Ideal for larger commercial garages, warehouses, and industrial 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 3.4: Visual representation of the heater's compact design and durable construction, suitable for commercial and industrial spaces, with options for ceiling or wall mounting.

## 4. INSTALLATION

Installation must be performed by a qualified installer or service agency in accordance with all local codes, or in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1/NFPA 54, and the National Electrical Code ANSI/NFPA 70.

### 4.1 Pre-Installation Checklist

- **Location:** Select a location that provides adequate clearances from combustible materials and allows for proper air circulation.
- **Clearances:** Refer to the product label for minimum clearances to combustible surfaces.
- **Gas Supply:** Ensure the natural gas supply line is correctly sized and capable of providing the required pressure and volume for the 150,000 BTU unit.
- **Electrical Supply:** Verify that the electrical supply meets the heater's requirements (typically 115V, 60Hz, 1-phase, with a dedicated circuit).
- **Venting:** Plan for the installation of the horizontal category 1 double wall B-vent kit for sidewall venting.

## 4.2 Mounting the Heater

The UDXC-150 can be ceiling-mounted or wall-mounted using the threaded-nut retainers at four suspension points. Mounting brackets and hardware are sold separately and must be appropriate for the heater's weight and the structural integrity of the mounting surface.

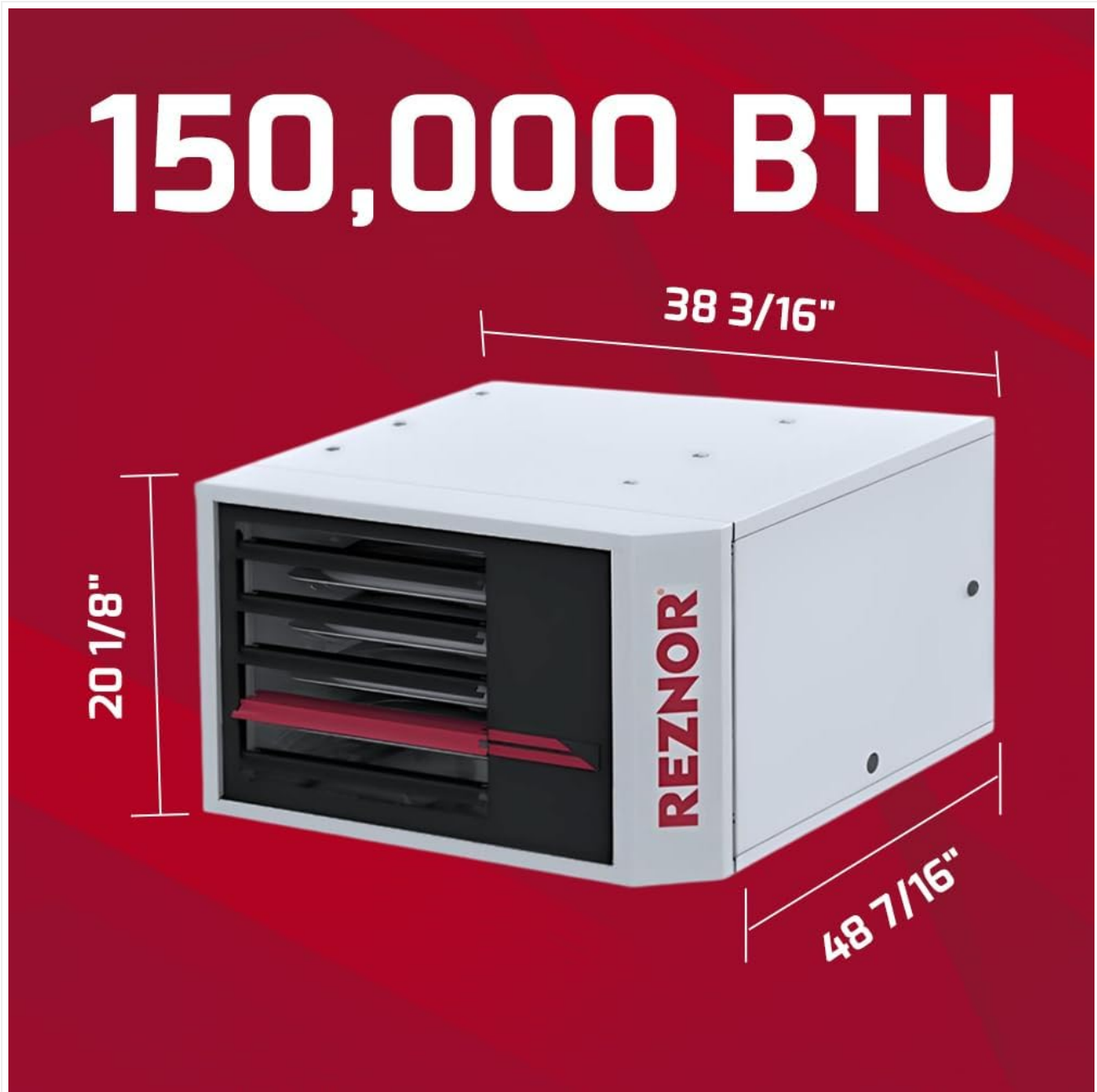


Image 4.1: Diagram showing the dimensions of the Reznor UDXC-150 heater: 38 3/16" width, 20 1/8" height, and 48 7/16" depth.

## 4.3 Venting System Installation

This unit includes a horizontal category 1 double wall B-vent kit for venting exhaust gases out of a sidewall. Follow the instructions provided with the vent kit for proper assembly and installation. Ensure all joints are sealed correctly and that the vent terminates in a safe location away from windows, doors, and air intakes.

## VENTING OPTIONS: HORIZONTAL CATEGORY I VENT KIT



### 5" 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 Adjustable Wall Thimble

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 5" Diameter Double Wall B-Vent Horizontal Category I Vent Kit, including vent cap, draft hood connector, straight pipes, adjustable elbow, and adjustable wall thimble.

## 4.4 Gas and Electrical Connections

- **Gas Connection:** Connect the natural gas supply to the heater's external gas connection point. All gas piping must be leak-tested and installed by a licensed gas fitter.
- **Electrical Connection:** Wire the heater to the appropriate electrical supply. The unit features an external terminal strip for 24V wiring and a built-in disconnect switch for safety. Ensure proper grounding.

## 5. OPERATING INSTRUCTIONS

Once installed and all connections are verified, the heater is ready for operation.

### 5.1 Initial Startup

1. Ensure all gas valves are open and the electrical power is supplied to the unit.
2. Set the thermostat to the desired temperature.
3. The Multi-Try Direct Spark Ignition system will attempt to light the burner. The 7-segment display will show diagnostic

codes during startup and operation.

4. Observe the status-indicating LED for normal operation.

## 5.2 Heating Flexibility and Air Circulation

The Reznor UDXC-150 features a single-burner design with two BTU outputs, providing high heat for colder conditions and lower heat for milder temperatures, ensuring efficient heating. The low static pressure axial fan and power venting system are designed to reduce heat loss and ensure effective air circulation throughout the heated space.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your Reznor UDXC-150 heater. Always disconnect electrical power before performing any maintenance.

### 6.1 Routine Inspections (Monthly/Quarterly)

- **Visual Check:** Inspect the heater for any visible damage, loose connections, or obstructions.
- **Vent System:** Check the vent pipes for any signs of corrosion, leaks, or blockages. Ensure the vent cap is clear.
- **Airflow:** Ensure the air intake and discharge areas are free from debris.

### 6.2 Cleaning

- **Exterior:** Clean the exterior casing with a damp cloth. Do not use abrasive cleaners.
- **Fan Blades:** Periodically inspect and clean the fan blades to remove dust and debris. This may require professional access.
- **Heat Exchanger:** Cleaning of the heat exchanger should only be performed by a qualified service technician.

### 6.3 Annual Professional Service

It is highly recommended to have a qualified HVAC technician perform an annual inspection and service of your heater. This includes checking gas pressure, combustion efficiency, electrical components, and overall system integrity.

## 7. TROUBLESHOOTING

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The UDXC-150 is equipped with a 7-segment display board and a status-indicating LED to assist with troubleshooting. Refer to the specific diagnostic codes provided in the full installation manual for detailed problem resolution.

### 7.1 Common Issues

- **Heater Not Starting:** Check power supply, gas supply, thermostat setting, and ensure the built-in disconnect is engaged. Look for diagnostic codes on the 7-segment display.
- **No Heat Output:** Verify burner ignition. If the burner is not lighting, check gas pressure and ignition components.
- **Fan Not Operating:** Check electrical connections to the fan motor. Ensure there are no obstructions to the fan blades.
- **Unusual Noises:** Investigate for loose components, debris in the fan, or motor issues.

For issues not resolved by basic troubleshooting, contact a qualified service technician.

## 8. SPECIFICATIONS

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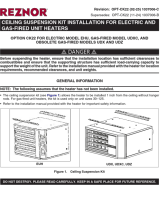
Feature	Specification
Brand	1HVAC
Model Number	UDXC-150
Heat Output	150,000 British Thermal Units
Fuel Type	Natural Gas
Thermal Efficiency	83%
Indoor/Outdoor Usage	Indoor
Form Factor	Mounted (Ceiling/Wall)
Product Dimensions (D x W x H)	48.44" x 38.19" x 20.13"
Number of Speeds	2
Vent Kit Included	Horizontal Cat 1 B-Vent Kit (5IN-CAT1-HORZ-KIT)




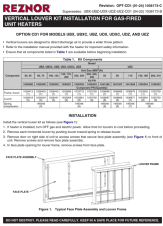
## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact the seller directly. For technical support, service, or replacement parts, please contact 1HVAC customer service or an authorized service provider.

**Contact Information:** Refer to your purchase receipt or the 1HVAC official website for the most current contact details.

### Related Documents - UDXC-150

 <p>1HVAC PHP-50 / PHP-65 / PHP-90 / PHP-110 / PHP-140 Inverter Heat Pump for Swimming Pools Please refer to the manual for details.</p>	<p><a href="#">1HVAC Inverter Heat Pump for Swimming Pools: User Manual</a></p> <p>Comprehensive user manual for 1HVAC Inverter Heat Pumps (PHP-50, PHP-65, PHP-90, PHP-110, PHP-140) for swimming pools, covering installation, operation, maintenance, troubleshooting, and warranty.</p>
 <p>REZNOR CK22 CEILING SUSPENSION KIT</p>	<p><a href="#">Reznor Ceiling Suspension Kit Installation Guide for Electric and Gas-Fired Unit Heaters</a></p> <p>Installation instructions and component details for the Reznor CK22 Ceiling Suspension Kit, compatible with EHU electric and UDXC, UDX, UDXZ gas-fired unit heaters. Learn how to safely mount your Reznor heater.</p>

	<p><a href="#">Reznor Gas Conversion Kit Installation for Gas-Fired Unit Heaters</a></p> <p>This document provides installation instructions for Reznor gas conversion kits for various gas-fired unit heater models, including UBX, UBXC, UBZ, UDX, UDXC, UDZ, UDAP, UDAS, UDBP, and UDBS. It details component selection, safety precautions, and installation steps for converting between natural gas and propane, as well as for high-elevation installations.</p>
	<p><a href="#">Reznor Ceiling Suspension Kit Installation for Electric and Gas-Fired Unit Heaters (Option CK22)</a></p> <p>Installation guide for the Reznor CK22 Ceiling Suspension Kit, designed for EHU, UDX, UDXC, and UDZ electric and gas-fired unit heaters. Includes kit components and installation steps.</p>
	<p><a href="#">VentMaster Commercial Water Heaters: Power Direct Vent Gas Models by Rheem-Ruud</a></p> <p>Explore the VentMaster series of power direct vent gas commercial water heaters by Rheem-Ruud. Featuring 100-gallon tank models with capacities from 150,000 to 250,000 BTU/Hr, these units offer advanced features, high efficiency, and robust construction for demanding commercial applications.</p>
	<p><a href="#">Reznor Vertical Louver Kit Installation Guide for Gas-Fired Unit Heaters (OPT-CD1)</a></p> <p>Installation instructions for the Reznor OPT-CD1 Vertical Louver Kit, designed for gas-fired unit heaters (models UBX, UBXC, UBZ, UDX, UDXC, UDZ, UEZ). Includes component list and step-by-step assembly guide.</p>