

1HVAC UDXC-175

Reznor UDXC-175 175,000 BTU Natural Gas Unit Heater Instruction Manual

Model: UDXC-175 | Brand: Reznor (by 1HVAC)

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of the Reznor UDXC-175 Natural Gas Unit Heater. Please read this manual thoroughly before attempting to install or operate 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.

2.1 General Safety Precautions

- Ensure all local codes and ordinances are followed.
- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- 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.

2.2 Electrical Safety

- Disconnect power before servicing.
- Ensure proper grounding.
- All electrical wiring must comply with national and local electrical codes.

2.3 Gas Safety

- Verify the gas supply type (Natural Gas) matches the heater's requirements.
- Check for gas leaks after installation using a non-corrosive leak detection solution.

- Do not use an open flame to check for gas leaks.

3. PRODUCT OVERVIEW

The Reznor UDXC-175 is a 175,000 BTU natural gas-fired unit heater designed for commercial and industrial spaces such as garages, workshops, and warehouses. It features a quiet forced-air system with a low static propeller fan.



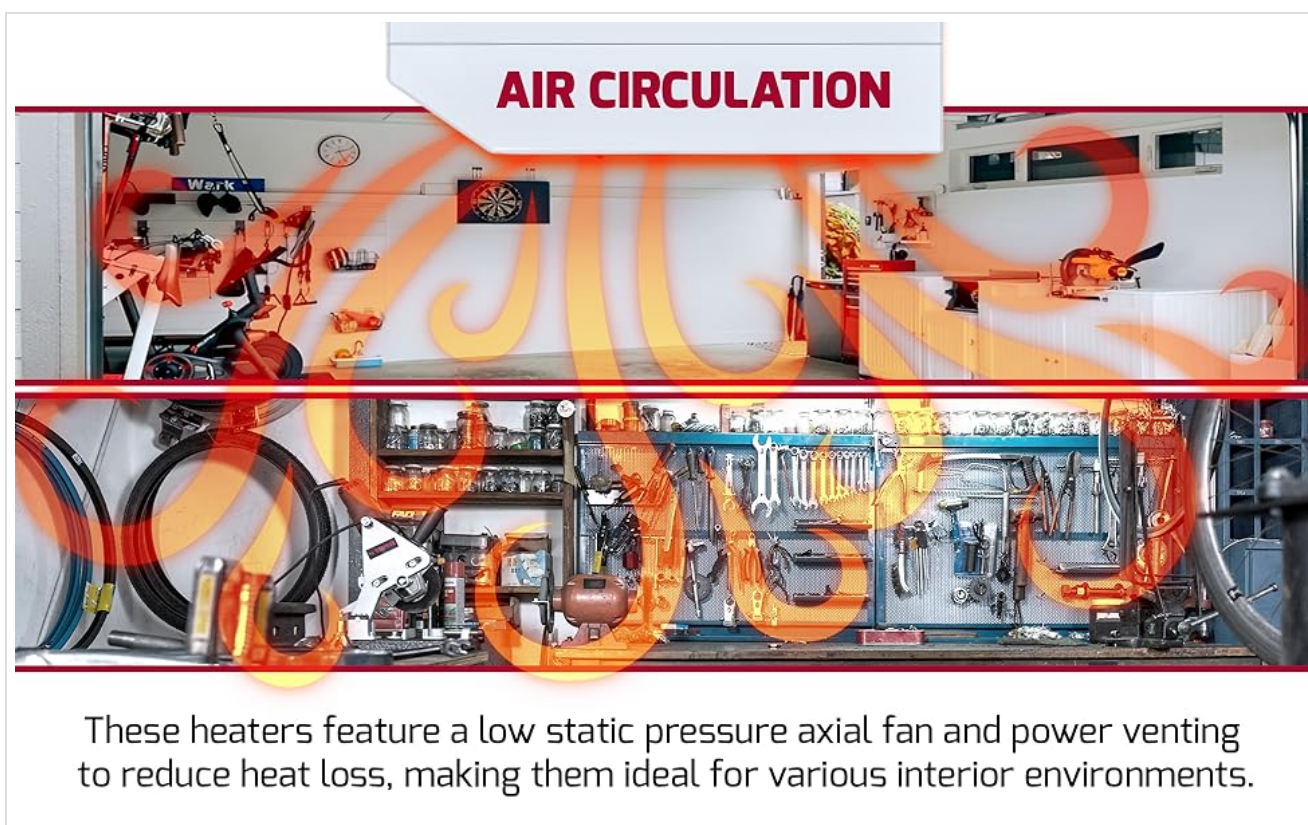
Figure 3.1: Front view of the Reznor UDXC-175 Natural Gas Unit Heater.

3.1 Key Features

- **Heat Output:** 175,000 BTU with 83% thermal efficiency.
- **Heat Exchanger:** TCORE2 titanium-stabilized aluminized steel.
- **Combustion:** Patented single-burner design.
- **Control System:** Integrated circuit board with display, built-in disconnect, and status-indicating LED.
- **Mounting:** Threaded-nut retainers at four suspension points for ceiling or wall mounting (mounting hardware sold separately).
- **Air Circulation:** Low static pressure axial fan and power venting.



Figure 3.2: The Reznor UDXC-175 unit heater, highlighting its branding and design.



These heaters feature a low static pressure axial fan and power venting to reduce heat loss, making them ideal for various interior environments.


Figure 3.3: The Reznor UDXC-175 heater installed in a workshop, demonstrating its application.

4. INSTALLATION

Proper installation is crucial for the safe and efficient operation of your Reznor UDXC-175 heater. Consult a qualified professional for installation.

4.1 Mounting

The unit is designed for ceiling or wall mounting using the four threaded-nut retainers. Mounting brackets are sold separately. Ensure the mounting structure can support the weight of the heater and any associated components.



SIMPLIFIED INSTALLATION & ADVANCED FEATURES

- Updated cabinet structure with a removable front face
- Hinged access door panel with a quarter-turn latch
- Threaded-nut retainers at four suspension points for ceiling or wall mounting
- Enhanced integrated circuit board with a 7-segment display
- Built-in enhanced disconnect switch
- Noticeable status-indicating LED
- External terminal strip for 24V wiring

Figure 4.1: Various mounting configurations for the Reznor UDXC-175 heater, illustrating ceiling and wall installation points.

4.2 Gas Connection

- Connect the heater to a natural gas supply line.
- All gas piping must comply with local codes and the National Fuel Gas Code (ANSI Z223.1/NFPA 54).
- Install a manual shut-off valve upstream of the unit.
- After connection, perform a leak test.

4.3 Electrical Connection

- Wire the unit according to the wiring diagram provided with the heater and local electrical codes.
- Ensure the power supply matches the unit's requirements (voltage, amperage).
- Connect the thermostat and any other control wiring to the external terminal strip for 24V wiring.

4.4 Venting

The unit is compatible with Category 1 double-wall B-vent pipe. It can be vented vertically through a roof or horizontally through a sidewall. Ensure proper clearances and sealing as per manufacturer instructions and local codes.

5. OPERATION

5.1 Initial Startup

1. Ensure all gas and electrical connections are secure and tested.
2. Open the manual gas shut-off valve.
3. Turn on the electrical power to the unit.

4. Set the thermostat to the desired temperature.
5. The integrated circuit board with its 7-segment display and status-indicating LED will provide operational feedback.

5.2 Normal Operation

The heater will cycle on and off as needed to maintain the set temperature. The low static propeller fan will circulate heated air throughout the space.

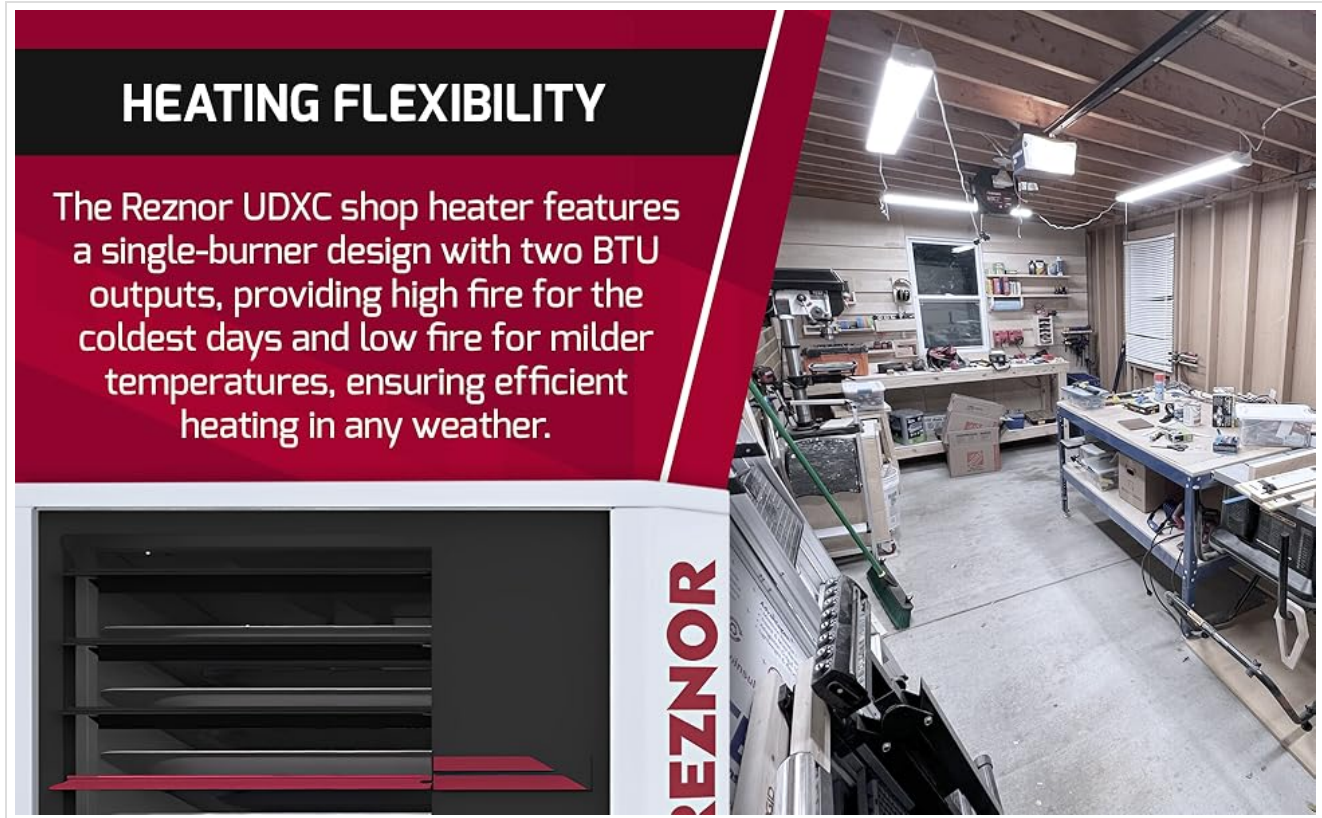


Figure 5.1: Diagram illustrating the air circulation pattern generated by the Reznor UDXC-175 heater in a room.

5.3 Shutdown

To shut down the unit for an extended period:

1. Set the thermostat to its lowest setting.
2. Turn off the electrical power to the unit.
3. Close the manual gas shut-off valve.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your heater. Always disconnect power and gas supply before performing any maintenance.

6.1 Annual Inspection (Recommended by Qualified Technician)

- Inspect the heat exchanger for cracks or corrosion.
- Check burner operation and flame characteristics.
- Verify proper operation of safety controls.
- Inspect and clean the fan and motor.
- Check gas pressure and manifold pressure.

- Inspect venting system for blockages or leaks.

6.2 User Maintenance

- **Cleaning:** Keep the exterior of the unit clean and free of dust and debris. The updated cabinet structure with a removable front face and hinged access door panel with a quarter-turn latch facilitates access for cleaning.
- **Clearances:** Ensure adequate clearances around the unit are maintained.

7. TROUBLESHOOTING

This section provides basic troubleshooting steps. For complex issues, contact a qualified service technician.

Problem	Possible Cause	Solution
Heater does not start	No power; Gas supply off; Thermostat setting too low; Safety lockout.	Check circuit breaker; Open gas valve; Adjust thermostat; Reset unit (refer to LED codes).
Insufficient heat	Incorrect thermostat setting; Blocked air intake/outlet; Low gas pressure.	Adjust thermostat; Clear obstructions; Contact gas supplier/technician.
Unusual noises	Loose components; Fan imbalance; Motor issue.	Inspect for loose parts; Contact service technician.
Pilot light/burner won't ignite	No gas; Ignition system fault; Dirty pilot/burner.	Check gas supply; Clean pilot/burner; Contact service technician.

The integrated circuit board with its display and status-indicating LED can provide diagnostic codes to assist in troubleshooting. Consult the specific diagnostic code list provided with your unit for detailed explanations.

8. SPECIFICATIONS

Feature	Detail
Model Number	UDXC-175
Brand	Reznor (by 1HVAC)
Heat Output	175,000 BTU
Thermal Efficiency	83%
Fuel Type	Natural Gas
Indoor/Outdoor Usage	Indoor
Product Dimensions (D x W x H)	48.44" x 38.19" x 20.13"
Special Features	Integrated Circuit Board with Display, Built-in Disconnect, Patented Single-burner Combustion
Mounting	Ceiling or Wall (mounting hardware sold separately)





9. WARRANTY AND SUPPORT

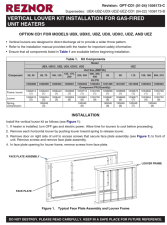
For warranty information and technical support, please refer to the documentation included with your purchase or contact the manufacturer, Reznor, or the distributor, 1HVAC. Keep your purchase receipt for warranty claims.

Contact Information: Refer to the official Reznor or 1HVAC website for the most current support contact details.

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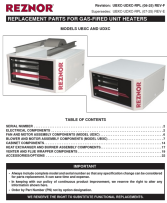
Related Documents - UDXC-175

	<p>1HVAC Inverter Heat Pump for Swimming Pools: User Manual</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 Gas Conversion Kit Installation for Gas-Fired Unit Heaters</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>Reznor Ceiling Suspension Kit Installation Guide for Electric and Gas-Fired Unit Heaters</p> <p>Installation instructions and component details for the Reznor CK22 Ceiling Suspension Kit, compatible with EHU electric and UDXC, UDX, UDZ gas-fired unit heaters. Learn how to safely mount your Reznor heater.</p>
	<p>Reznor Relay Kit Installation Guide for Multiple Unit Control (CL31/CL32)</p> <p>Comprehensive installation guide for Reznor CL31 and CL32 relay kits, enabling multiple unit control for various Reznor electric and gas-fired heaters. Includes component lists, detailed installation steps, and wiring specifications.</p>



[Reznor Vertical Louver Kit Installation Guide for Gas-Fired Unit Heaters \(OPT-CD1\)](#)

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.



[Reznor UBXC/UDXC Gas-Fired Unit Heater Replacement Parts Manual](#)

This manual provides detailed replacement parts information for Reznor UBXC and UDXC series gas-fired unit heaters. It includes sections on serial number decoding, electrical components, fan and motor assemblies, blower assemblies, cabinet components, heat exchanger and burner assemblies, venter and flue wrapper components, and various accessories and options.