

GAS CONVERSION KIT INSTALLATION FOR GAS-FIRED UNIT HEATER

MODELS ACiQ-UH-30-NG, ACiQ-UH-60-NG, AND ACiQ-UH-125-NG

GENERAL INFORMATION

This gas conversion kit (PN 2000752) is for converting the natural gas-fired unit heater for use with propane.

Important Safety Information

Refer to the installation manual provided with the heater for important safety information. Pay attention to all dangers, warnings, cautions, and notes highlighted in this manual. Safety markings should not be ignored and are used frequently throughout to designate a degree or level of seriousness.

⚠ DANGER ⚠

- All gas conversion must be done by a qualified service person in accordance with these instructions and in compliance with all codes and requirements. In Canada, gas conversion shall be carried out in accordance with the requirements of the Provincial Authorities having jurisdiction and in accordance with the requirements of the CAN/CGA-B149.1 and CAN/CGA-B149.2 installation code. *Toute conversion de gaz doit être effectuée par un technicien qualifié conformément à ces instructions et en conformité avec tous les codes et exigences. Au Canada, la conversion au gaz doit être effectuée conformément aux exigences des autorités provinciales compétentes et conformément aux exigences du code d'installation CAN/CGA-B149.1 et CAN/CGA-B149.2.*
- The gas burner in this gas-fired equipment is designed to provide safe complete combustion. However, if the installation does not permit the burner to receive the proper supply of combustion air, complete combustion may not occur. The result is incomplete combustion, which produces carbon monoxide, a poisonous gas that can cause death. *Le brûleur à gaz de cet équipement alimenté au gaz est conçu pour assurer une combustion complète et sûre. Toutefois, si l'installation ne permet pas au brûleur de recevoir l'alimentation adéquate en air de combustion, la combustion complète risque de ne pas se produire. Le résultat est une combustion incomplète, qui produit du monoxyde de carbone, un gaz toxique qui peut causer la mort.*
- Safe operation of indirect-fired gas burning equipment requires a properly-operating vent system that vents all flue products to the outside atmosphere. Failure to provide proper venting will result in a health hazard that could cause serious personal injury or death. *Le fonctionnement sécuritaire des équipements de combustion indirecte au gaz nécessite un système de ventilation fonctionnant correctement qui évacue tous les produits de combustion vers l'atmosphère extérieure. L'absence d'une ventilation adéquate entraînera un risque pour la santé qui pourrait causer des blessures graves, voire la mort.*
- Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment. *Une installation, un ajustement, une modification, un entretien ou un entretien incorrects peuvent entraîner des dommages matériels, des blessures ou la mort. Lisez attentivement les instructions d'installation, d'utilisation et d'entretien avant d'installer ou d'entretenir cet équipement.*

DO NOT DESTROY. PLEASE READ CAREFULLY. KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

GENERAL INFORMATION—CONTINUED

Important Safety Information—Continued

⚠ DANGER ⚠

For all heater installations, always comply with the combustion air requirements in the installation codes and instructions. Power vent heaters installed in a confined space must be supplied with air for combustion as required by code and in the heater installation manual. Combustion air at the burner should be regulated only by manufacturer-provided equipment. Never restrict or otherwise alter the supply of combustion air to any heater. Maintain the vent or vent/combustion air system in structurally sound and proper operating condition. *Pour toutes les installations de chauffage, respectez toujours les exigences en matière d'air de combustion indiquées dans les codes et les instructions d'installation. Les appareils de chauffage à ventilation forcée installés dans un espace confiné doivent être alimentés en air pour la combustion comme l'exigent le code et le manuel d'installation de l'appareil de chauffage. L'air de combustion au niveau du brûleur ne doit être régulé que par l'équipement fourni par le fabricant. Ne jamais restreindre ni modifier de quelque manière que ce soit l'alimentation en air de combustion d'un appareil de chauffage. Maintenir le système de ventilation ou de ventilation/air de combustion en bon état de structure et de fonctionnement.*

Heater Component Locations

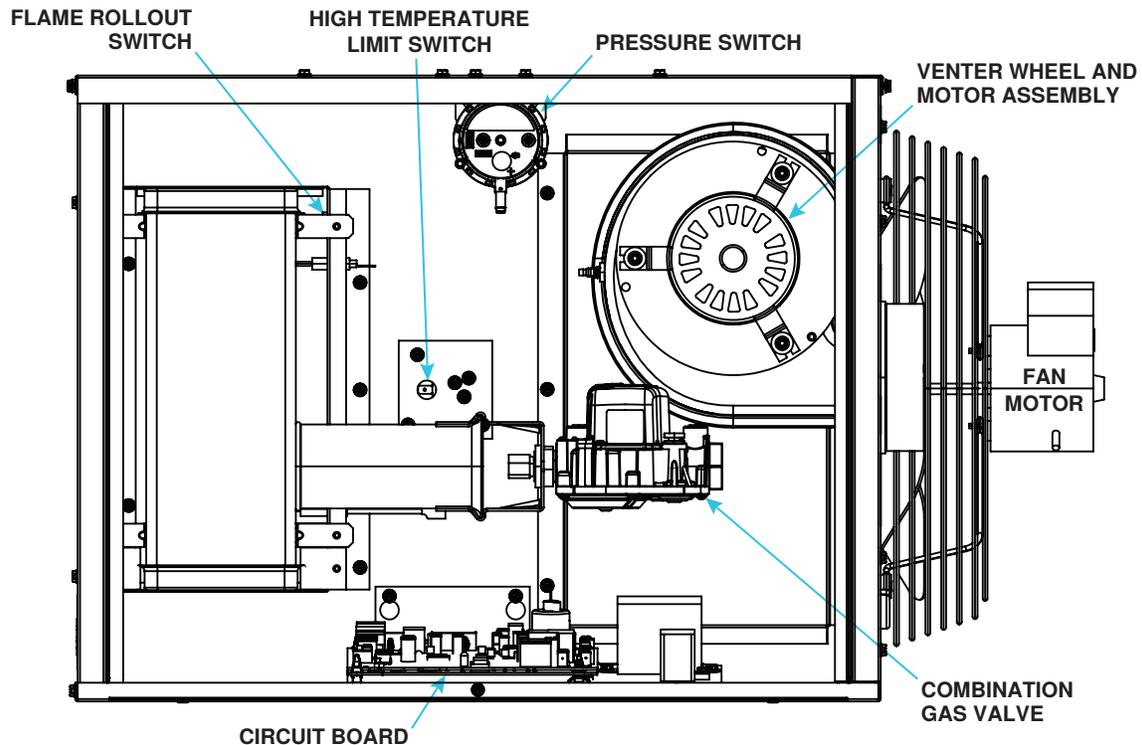


Figure 1. Heater Component Locations (Typical)

Kit Components

| Table 1. Conversion Kit (PN 2000752) Components | | | | |
|---|--|-------------------|---------|--------|
| Component | Description | Unit Size (MBTUh) | | |
| | | 30 | 60 | 125 |
| | | PN | | |
| Air restrictor plate | 1-3/16-inch (30-mm) opening | 203078 | — | — |
| | 1-9/16-inch (40-mm) opening | — | 202051 | — |
| | 1-3/4-inch (44-mm) opening | — | — | 196688 |
| Burner orifice | 1.6 mm | 196844 | — | — |
| | #42 | — | 2000651 | — |
| | #30 | — | — | 196838 |
| Disk | Propane | — | 37752 | — |
| Label | High-elevation (>2000 feet (>610 meters)) adjustment | — | 197062 | — |
| | Gas conversion | — | 64391 | — |
| Spring kit | Regulator | — | 260605 | — |

INSTALLATION

1. Remove gas supply and electrical power:
 - a. Turn OFF gas supply at shutoff valve outside of heater.
 - b. Turn OFF electrical power.
 - c. Open access door panel.

⚠ CAUTION ⚠

After a new regulator spring kit is installed, it is necessary to adjust the spring by adjusting the manifold pressure. This adjustment can be made only after the heater is in operation (refer to step 7).

2. Install regulator spring kit in accordance with gas valve manufacturer's instructions (included with regulator spring kit).
3. Install air restrictor plate and replace burner orifice (see [Figure 2](#)):
 - a. Carefully remove existing burner orifice (see [Figure 2](#), DETAIL A).

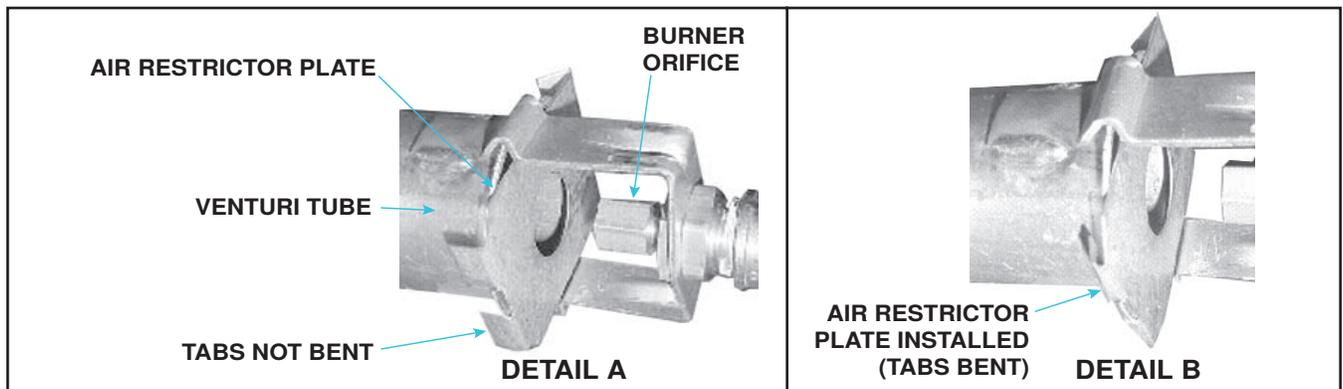


Figure 2. Burner Orifice and Air Restrictor Plate

INSTALLATION—CONTINUED

⚠ DANGER ⚠

The failure to install the air restrictor plate in accordance with the following directions can cause death or injury and/or property damage. *Le non-respect des instructions suivantes lors de l'installation de la plaque de restriction d'air peut entraîner la mort, des blessures et/ou des dommages matériels.*

- b. Install air restrictor plate:
 - (1) Slide plate in place over venturi tube opening so that its 45-degree angle is hooked over rear of venturi tube.
 - (2) While holding plate in position, use pliers to carefully bend tabs to lock plate in place (see [Figure 2](#), DETAIL B). Ensure that air restrictor is aligned and secure.

⚠ WARNING ⚠

Do not attempt to drill burner orifice. Use factory-supplied orifice only. *N'essayez pas de percer l'orifice du brûleur. Utiliser uniquement l'orifice fourni par l'usine.*

- c. Install replacement burner orifice (see [Figure 2](#), DETAIL A).

⚠ CAUTION ⚠

If the heater will be operated at an elevation >6,000 feet (>1,830 meters), a high-elevation pressure switch must be installed.

4. For installations at elevations >6,000 feet (>1,830 meters), replace pressure switch in accordance with ***Pressure Switch Replacement*** section in installation, operation, and maintenance manual provided with unit.
5. Restore electrical power and gas supply:
 - a. Turn ON electrical power.
 - b. Turn ON gas supply and relight heater, following instructions on heater.
6. Perform leak test:
 - a. Check all connections for gas leaks using commercial leak-detecting fluid or rich soap and water solution. Leaks are indicated by presence of bubbles.
 - b. If leak is detected, tighten connection. If leak cannot be stopped by tightening connection, replace part(s).

NOTE: Conversion of a unit using this kit does not alter the input rate. Refer to the rating plate on the heater for the input rate and other appropriate information. If adjusted for high-elevation operation, the input rate will be affected.

7. Adjust manifold (outlet) gas pressure in accordance with ***Measure and Adjust Manifold (Outlet) Gas Pressure*** section in installation, operation, and maintenance manual provided with unit.
8. Close access door panel.

