

ACCESSORY KIT INSTALLATION INSTRUCTION

LOW NO_x CONVERSION ACCESSORY

MODEL 1LN0406

For Single Package Gas/Electric Unit 3 thru 6 Tons

▲WARNING

This conversion kit is to be installed by a Unitary Products Group distributor or other qualified agency in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Failure to follow instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.

▲WARNING

For U.S. units, installation must be made in accordance with American National Standard National Fuel Gas Code, ANSI Z223.1 – latest edition, unless superseded by local codes. For Canadian installations, the conversion shall be carried out in accordance with the requirements of the Provisional authorities having jurisdiction and in accordance with the CAN1-B149.1 and .2 installation codes.

GENERAL

This NO_x kit is for installation in gas furnaces in locations where codes require that the Oxides of Nitrogen emissions from the furnace be below 40 Nano grams per joule. This kit should be installed by qualified personnel before the natural gas is connected.

NOTE: This accessory must NOT be used on units that will be burning propane.

LIMITATIONS

All limitations for natural gas heating as described in the Unit Installation Instructions will still apply after this kit is installed.

▲WARNING

Improper installation, adjustment, service or maintenance can cause injury or property damage; therefore only a qualified installer or qualified service personnel should perform this conversion.

REMOVE MANIFOLD/BURNER ASSEMBLY

Before the gas and electrical power supplies are connected to the unit, remove the manifold/burner assembly as follows:

1. Remove the access panel to the gas heat compartment.
2. Disconnect the wiring from the gas valve and pull the red high tension wire off the spark ignitor and sensor located at the burner bracket.
3. Using a screw driver or ratchet, remove the screws holding either end of the manifold/burner assembly to the supports.
4. Carefully remove the manifold/burner assembly with gas valve attached by grasping the manifold with two hands lifting up and then pulling out of the unit.

REMOVE SHOOT THRU PLATE

1. Remove nuts from mounting bolts. See Figure 1.



FIGURE 1: Shoot Thru Plate Before Removal

2. Remove ferrules, thick flat washers (if present) and shoot thru plate.

▲CAUTION

Do Not allow the mounting bolts to escape the panel through which they protrude. Doing so will require that the top of the unit be removed to retrieve them.

INSTALLING LOW NO_x SCREENS

Wire mesh screens are provided for installation into the heat exchanger tubes.

1. Insert one screen into each tube in the direction as shown in Figure 2. The screens should be positioned in the inlet of each tube as seen in Figure 3. Unused screens may be discarded.

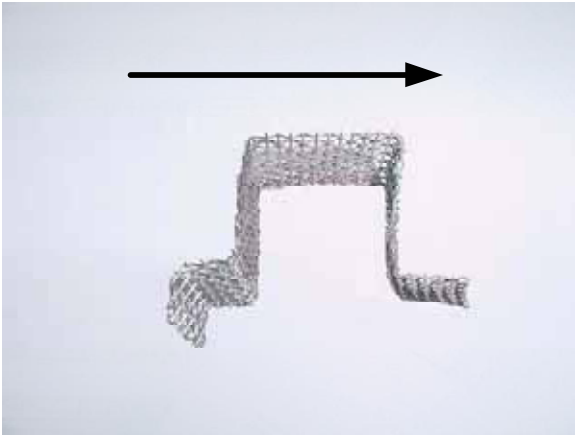


FIGURE 2: Direction of Screen Insertion



FIGURE 3: Screen Inserted in Heat Exchanger Tube

2. In the reverse order, carefully reinstall the shoot thru plate with its beveled holes protruding into the heat exchanger tubes, the high flat washers (if present), the ferrules and the nuts. Snugly tighten the nuts. See Figure 4.



FIGURE 4: Shoot Thru Plate Reinstall

3. Reinstall the manifold/burner assembly in the reverse order that it was removed. Be sure that the burners are level and seat at the front of the heat exchanger. Reattach wiring.

PROPERLY FILL OUT THE CONVERSION LABEL

1. Remove label 10561/035-11635-000 from the shipping box. Check the box that states the unit has been converted from normal to high altitude and fill the name of the organization making the conversion (in Canada the respective conversion station) and address.
2. Under "Rating After Conversion", write in the following:
 - a. Orifice size, as stamped on the orifice.
 - b. Maximum inlet pressure - 10.5 IWC.
 - c. Minimum inlet pressure - 5.0 IWC.
 - d. Manifold pressure - 3.5 IWC.
 - e. Input, this will be the same as on the data plate.
 - f. Output rating, this will be the same as the output on the data plate.

3. Under "Changes After Conversion", write in the following:
 - a. Kit number, located on the outside of the box.
 - b. Unit model number.
 - c. Name and address of the organization making the conversion and the date.
4. Remove the label backing and affix label adjacent to the unit data plate along with the laminate overlay.

5. Refer to the gas heat section of the unit installation instructions for proper installation and start-up procedures.

PARTS SUPPLIED WITH THIS ACCESSORY

ITEM	QTY.	PART NO.	DESCRIPTION
1	5	253433	Low NOx Wire Mesh Screen
2	1	10561	Conversion Label
3	1	253431	Accessory Instruction



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Supersedes: Nothing

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