INSTALLATION INSTRUCTIONS FOR CANADIAN HIGH ALTITUDE CONVERSION KIT MODEL RXRX-AH02

THIS KIT NUMBER RXRX-AH02 IS FOR USE IN DE-RATING THE FURNACE INPUT OF 7.5 - 25 TON GAS HEAT ROOFTOPS FOR OPERATION ON NATURAL GAS AT ELEVATIONS OF 2000 - 4500 FEET (610 - 1373 METERS) IN CANADA.

Recognize this symbol as an indication of Important Safety Information!

PARTS LIST		
DESCRIPTION	**PART NUMBER**	**QUANTITY**
Installation Instructions	92-24096-05	1
Conversion Label	92-18153-07	1
Orifice - Burner (#40)	62-21551-40	14
Orifice - Burner (#42)	62-21551-42	14
Orifice - Burner (#44)	62-21551-44	14

⚠WARNING

THE CONVERSION SHALL BE CARRIED OUT BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE, IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER, PROVINCIAL, OR TERRITORIAL REQUIREMENTS OF CAN/CGA-B149.1, OR CAN/CGA-B149.2 INSTALLATION CODES. FAILURE TO FOLLOW INSTRUCTIONS CAN RESULT IN FIRE OR EXPLOSION CAUSING PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH. THE QUALIFIED SERVICE PERSONNEL PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS CONVERSION.

NOTICE: DAMAGE TO THE PRODUCT RESULTING FROM FAILURE TO FOLLOW INSTRUCTIONS OR USE OF UNAUTHORIZED PARTS MAY BE EXCLUDED FROM THE MANUFACTURER'S PRODUCT WARRANTY COVERAGE.

NOTICE: ALL GAS PIPING MUST COMPLY WITH THE LATEST CAN/CGA-B149.1 & B149.2 INSTALLATION CODES FOR GAS BURNING APPLIANCES AND ALL PROVINCIAL AND LOCAL CODES. ALL ELECTRICAL WIRING MUST COMPLY WITH THE CANADIAN ELECTRICAL CODE, PART 1 - CSA STANDARD C22.1 AND ALL PROVINCIAL AND LOCAL CODES.

KIT INSTALLATION

(SEE ORIFICE CHART AND ILLUSTRATION ON PAGE 2)

⚠WARNING

TURN OFF ELECTRICAL POWER AND TURN OFF MAIN GAS SUPPLY BEFORE BEGINNING MODIFICATION. FAILURE TO DO SO CAN CAUSE ELECTRICAL SHOCK, EXPLOSION OR FIRE RESULTING IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

1. Remove furnace/controls compartment access panel.
2. Disconnect gas line at union ahead of combination gas valve.
3. Remove screws that attach gas manifold to burner tray and remove gas manifold.
4. Each one of the burner orifices must be removed from the gas manifold and replaced with the orifice from the envelope marked with the proper orifice size to convert unit to operate at elevations of 2000 - 4500 feet (610 - 1373 meters). Refer to Orifice Chart on page 2 to identify the correct burner orifice size required. Open the burner orifice envelope marked with the orifice drill size required.
5. Re-attach gas manifold to burner tray.
6. Re-connect gas line at union.
7. Re-connect all wiring previously disconnected. Refer to wiring diagram on the back side of the unit control box cover.
8. Turn on gas and electrical supply.
9. Check unit thoroughly for gas leaks with soap and water.

⚠WARNING

DO NOT USE AN OPEN FLAME TO CHECK FOR LEAKS. USE OF AN OPEN FLAME CAN CAUSE AN EXPLOSION OR FIRE RESULTING IN PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

10. Follow lighting instructions attached to unit to put furnace into operation.
11. Operate thermostat to check unit operation for ignition and extinction characteristics.

COMPLETING CONVERSION

12. Using a ball-point indelible pen, record the burner orifice size, manifold pressure, de-rated input, date of conversion, type of fuel, and person performing the conversion on label 92-18153-07.
13. Place completed conversion label adjacent to the unit rating plate.

DO NOT REMOVE OR DEFACE ORIGINAL RATING PLATE

14. Install furnace/controls compartment access panel.
15. Run furnace through a complete cycle to assure proper operation.

ORIFICE CHART

Total Furnace Rating Plate Input (Btu/Hr)	Canadian High Altitude De-rated Input (Btu/Hr)	Number of Burners	Natural Gas Orifice Size Heating Value = 1075 Btu/Cu. Ft. Specific Gravity = 0.65 Manifold Press. - 3.5" w.c.	
			Elevation 0-2000 ft. (0-610 m)	Elevation 2000-4500 ft. (610-1373 m)
150,000	135,000	6	42	44
225,000	202,500	9	42	44
252,000	226,800	9	40	42
250,000	225,000	10	42	44
300,000	270,000	12	42	44
350,000	315,000	14	42	44
400,000	360,000	14	40	42

FIGURE 1
GAS CONTROL & BURNER ORIFICE LOCATIONS FOR VARIOUS ROOFTOP MODELS

