

3 to 12¹/₂ Ton Gas Heat/Electric Cool Small Rooftop Units Accessory LP (Liquid Propane) Gas Conversion Kit

Cancels: IIK 580-36-3

IIK 580-36-10
7/15/00

Installation Instructions

Part No. CFLPKIT1001A00, CRLPKIT1002A00

Usage and Contents

| ACCESSORY PART NO. | USAGE | CONTENTS |
|--------------------|---|---|
| CRLPKIT1001A00 | 3 to 6 Ton Units | 3 Burner Orifices, Drill Size No. 38, .102 in. 3 Burner Orifices, Drill Size No. 45, .082 in. 1 Conversion Label 1 Warning Label |
| CRLPKIT1002A00 | 7 ¹ / ₂ to 12 ¹ / ₂ Ton Units | 5 Burner Orifices, Drill Size No. 38, .102 in. 5 Burner Orifices, Drill Size No. 41, .096 in. 1 Conversion Label 1 Warning Label |

⚠ WARNING

Before beginning any modification, close main gas supply shutoff valve. Be certain that the main line electrical disconnect switch is in the OFF position and lockout tag is installed. Electric shock or fire could result. Tag disconnect switch and gas valve with suitable warning labels.

⚠ WARNING

This unit is designed to operate at 3.5 in. wg (\pm 0.3 in. wg) manifold pressure in high fire with LP gas. Exceeding this pressure will cause explosion or injury.

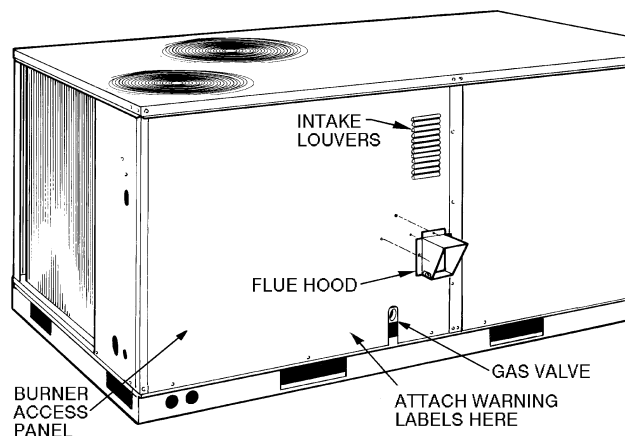


Fig. 1 — Typical Base Unit

INSTALLATION

Step 1 — Remove Burner Section From Base Unit (See Fig. 1 and 2)

1. Shut off manual gas valve.
2. Shut off power to unit and install lockout tag.
3. Remove burner access panel.
4. Slide out burner section side panel.
5. Disconnect gas piping at unit gas valve.
6. Remove wires connected to gas valve. Mark each wire.
7. Remove ignitor and sensor wires. Mark each wire.
8. Remove the 2 screws that attach the burner rack to the vestibule plate.
9. Remove the gas valve bracket (part of burner access panel on 3 to 6 ton standard efficiency units only).
10. Slide the burner tray out of the unit (Fig. 3).

Step 2 — Modify Burner Assembly (Fig. 3)

1. Separate burners from frame by removing screws.
2. Replace orifices with those provided in accessory LP Conversion Kit. See Table 1.
3. Remount burners to support frame.

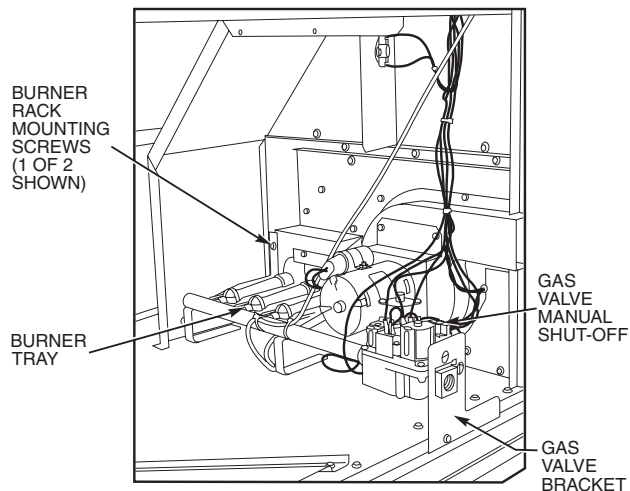
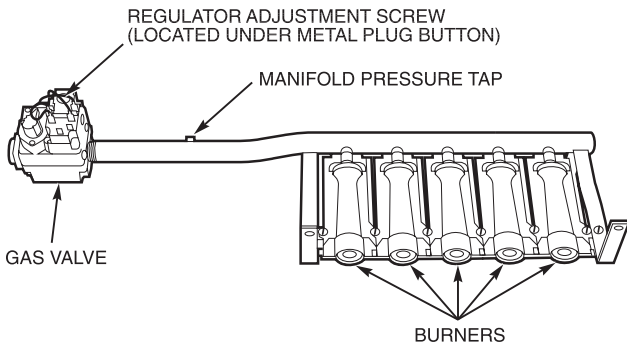


Fig. 2 — Gas Section Details
(3 to 6 Ton Unit Shown)



**Fig. 3 — Burner Section Details
(7¹/₂ to 12¹/₂ Ton Unit Shown)**

Step 3 — Reinstall Burner Assembly

1. Slide the burner tray into the unit.
2. Attach burner rack to vestibule plate with 2 screws.
3. Replace gas valve bracket.
4. Reconnect the ignitor and sensor wires.
5. Reconnect wires to gas valve.
6. Connect gas piping to the gas valve.
7. Attach conversion label next to unit rating plate.
8. Attach warning label to burner access panel. See Fig. 1 for location of warning label.

Step 4 — Check Unit Operation and Make Necessary Adjustments

NOTE: Gas pressure must not be less than 5 in. wg or greater than 13 in. wg at the unit connection.

1. Remove manifold pressure tap plug from manifold and connect pressure gage or manometer.
2. Turn on electrical supply.
3. Turn on unit main gas valve.
4. Set room thermostat to call for heat. Ensure gas valve is set to high fire operation before attempting to adjust manifold pressure.

5. When main burners ignite, check manifold and orifices for leaks.

⚠ WARNING

Never use a match or other open flame to check for leaks. Use a soap and water solution. Fire or serious injury could result.

⚠ CAUTION

If unit is equipped with a 2-stage gas valve, ensure valve has energized second stage (high fire) before adjusting manifold pressure.

6. Adjust regulator for 3.5 in. wg manifold pressure while in high fire (W2 energized). Check firing rate and readjust pressure if necessary. See nameplate.

⚠ WARNING

This unit is designed to operate at 3.5 in. wg (± 0.3 in. wg) manifold pressure with LP gas. Exceeding this pressure will cause explosion or injury.

7. Shut down unit by turning down thermostat, shutting off manual gas valve, and shutting down power to unit.
8. Remove pressure gage or manometer and replace manifold pressure tap plug.
9. Start up unit. With burners ignited, check pressure tap for gas leaks. Repair if necessary.
10. Turn unit off.
11. Reinstall the burner section side panel.
12. Replace burner access panel.
13. Restore power to unit.
14. Turn on main gas valve.
15. Set thermostat to desired temperature.
16. Remove warning tags from disconnect switch and gas supply shutoff valve.

Table 1 — Burner Orifice Sizes

| UNIT SIZE | HEATING INPUT (Btuh) | ORIFICE DRILL SIZE |
|--|----------------------|--------------------|
| 3 to 6 Tons | 72,000 | No. 45, .082 in. |
| | 74,000 | |
| | 115,000 | No. 38, .102 in. |
| | 150,000 | |
| 7 ¹ / ₂ to 12 ¹ / ₂ Tons | 125,000 | No. 41, .096 in. |
| | 180,000 | |
| | 224,000 | No. 38, .102 in. |
| | 250,000 | |