LP Conversion Kit for Single/Two Stage Gas
2/4YC** 1 1/2 - 5 Tons
4DC** 2 - 5 Tons

Models: BAYLPKT100AA, BAYLPKT101AA, BAYLPKT102AA

WARNING: HAZARDOUS VOLTAGE - DISCONNECT POWER BEFORE SERVICING

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

IMPORTANT — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

WARNING

Hazardous Voltage and Gas!
This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency performing this work assumes responsibility for the proper conversion of this appliance with this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with this kit.

GENERAL
These instructions describe converting single/two stage packaged gas/electric models 2/4YC* and dual fuel models 4DCY from natural gas to LP gas.

Conversion from natural gas to LP gas is a critical procedure, therefore, these INSTRUCTIONS MUST BE FOLLOWED CLOSELY. The conversion kit shall be installed by a qualified service agency.

INSPECTION
1. Unpack all components of the LP conversion kit.
2. Check the kit for damage. Report promptly to the carrier any damage found to the kit.
3. Check to be sure that the package contains the parts listed in Table 1. Any missing components should be reported to your supplier at once and replaced with authorized components only.

Table 1. Orifices Kit

<table>
<thead>
<tr>
<th>Model</th>
<th>Orifice Qty</th>
<th>Orifice Size</th>
<th>LP Springs</th>
<th>Manifold Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>50</td>
<td>2*</td>
<td>10.0</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>52</td>
<td>2*</td>
<td>10.4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>50</td>
<td>2*</td>
<td>10.4</td>
</tr>
</tbody>
</table>

* Use 1 spring for single stage models

CONVERSION PROCEDURE

WARNING

Hazardous Voltage and Gas!
Turn off the gas supply and disconnect all electric power, including remote disconnects before servicing unit. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Failure to turn off gas or disconnect power before servicing could result in death or serious injury.

1. Set the thermostat to OFF.
2. Shut off gas supply to the unit.
3. Open the unit's electrical disconnect switch.
4. Remove the Controls/Heat access panel.
5. Remove the manifold from the burner bracket four (4) screws.
6. Remove the natural gas orifices from the manifold. See Figure 1.
7. Install LP gas orifices from the manifold.
8. At the gas regulator, remove the natural gas spring located under the gas valve's regulator adjustment screw.

9. Reverse the disassembly procedure and secure all components in their respective positions.

WARNING

Hazard of Explosion!
Never use an open flame to detect gas leaks. Explosive conditions may occur. Use a leak test solution or other approved methods for leak testing. Failure to follow recommended safe leak test procedures could result in death or serious injury or equipment or property-only-damage.

The manufacturer has a policy of continuous product and product data improvement; it reserves the right to change design and specification without notice.
10. Attach the “LP” nameplate supplied with this kit adjacent to the unit nameplate and apply the conversion label to the gas valve.

11. Check all piping joints and electrical connections for tightness.

12. Turn on the gas supply to the unit.

13. Measure the gas pressure. The incoming supply gas pressure should be 11” to 13” W.C.

14. Check for leaks at all joints with a soap solution.

**NOTE:** Contact the LP gas supply company if the supply pressure is different than the supply pressure indicated on the unit nameplate.

15. Restore power to unit.

16. Place the thermostat selector switch to the HEAT position and adjust the set point indicator to its highest setting. The burners should light.

17. Refer to rating nameplate for proper input. Adjust the unit manifold pressure to the values shown in Table 1 (Refer to 2/4YCC3/YCX3, 4YCY4, 4DCY4, 4YCZ6, or 4DCZ6 Installer’s Guide for proper adjustment instructions and input calculations). High-fire regulation should be adjusted first, followed by low-fire adjustment.

18. Inspect burner flames. Flame should be soft, stable, and blue. Flames should not lift off of burners or have significant yellow tipping.

19. Replace the access panel.

20. Refer to 2/4YCC/YCX, 4YCY, or 4DCY Installer’s Guide to verify proper unit sequence of operation.

21. At altitudes above 2000 feet derate application 4% per 1000 feet.

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**NATURAL TO LP CONVERSION TROUBLESHOOTING FOR TWO STAGE UNITS ONLY**

**High-fire does not respond to adjustment (in high-fire mode)**

Ensure that high-fire screw is being adjusted, and that valve is in high-fire mode by checking for proper current to 2-stage solenoid (at HI terminal).

Low-fire adjustment should have no effect when in high-fire mode.

**Valve only responds to high-fire adjustment (in low-fire mode)**

This indicates that actual low-fire adjustment is greater than the current high-fire adjustment. Ensure that LP spring is in high-fire regulator. Increase high-fire adjustment until valve no longer responds, then adjust low-fire setting.

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**Figure 1. Burner and Valve**

![Diagram of Burner and Valve](image-url)