FIGURE 50
JOHNSON CONTROLS G961DAJ-2401 CONTROL BOARD
TWINNING CONNECTION TWO STAGE OPERATION
ACCESSORIES

FIELD-INSTALLED OPTION ACCESSORIES

ELECTRONIC AIR CLEANER
Line voltage power can be supplied from the screw terminal “EAC” and a line voltage neutral screw terminal on the control board. This will power the electronic air cleaner whenever the circulating air blower is in operation.

HUMIDIFIER
Line voltage power can be supplied from screw terminal “HUM” to a line voltage neutral screw terminal on the control board. This will power the humidifier whenever the burner is on and the circulating air blower is operating in the heating mode.

NOTE: Maximum current – 1.0 amps for each option.

HIGH ALTITUDE KIT
Models installed at altitudes of 5,000 feet and above require a pressure switch change. These may be ordered under Option Code No. 278. Models with this option code will have the additional pressure switch and burner orifice packed with the furnace. The installer should replace the induced draft blower pressure switch installed on the furnace with the new pressure switch. The burner orifices should also be changed when required (See Table Below). The following high altitude kits are also available:

Kit No: RXGY-F04 – set point – 0.70” w.c.
RXGY-F05 – set point – 0.60” w.c.
RXGY-F06 – set point – 1.11” w.c.
RXGY-F07 – set point – 0.95” w.c.

The following is a list of furnace inputs and required pressure switches:

<table>
<thead>
<tr>
<th>INPUT</th>
<th>KIT NO.</th>
<th>SET POINT</th>
<th>MAKE POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>45,000</td>
<td>RXGY-F06</td>
<td>1.11” w.c.</td>
<td>1.29” w.c.</td>
</tr>
<tr>
<td>60,000</td>
<td>RXGY-F06</td>
<td>1.11” w.c.</td>
<td>1.29” w.c.</td>
</tr>
<tr>
<td>75,000</td>
<td>RXGY-F07</td>
<td>0.95” w.c.</td>
<td>1.10” w.c.</td>
</tr>
<tr>
<td>90,000</td>
<td>RXGY-F06</td>
<td>1.11” w.c.</td>
<td>1.29” w.c.</td>
</tr>
<tr>
<td>105,000</td>
<td>RXGY-F04</td>
<td>0.70” w.c.</td>
<td>0.85” w.c.</td>
</tr>
<tr>
<td>120,000</td>
<td>RXGY-F05</td>
<td>0.60” w.c.</td>
<td>0.75” w.c.</td>
</tr>
</tbody>
</table>

ORIFICE SIZES

<table>
<thead>
<tr>
<th>U.S.</th>
<th>0 - 7999 FT.</th>
<th>8000 FT. &amp; ABOVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>#50</td>
<td>#51</td>
</tr>
<tr>
<td>LP Gas</td>
<td>1.15 mm</td>
<td>1.10 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CANADA</th>
<th>0 - 2000 FT.</th>
<th>2001 TO 4500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>#50</td>
<td>#50</td>
</tr>
<tr>
<td>LP Gas</td>
<td>1.15 mm</td>
<td>1.15 mm</td>
</tr>
</tbody>
</table>

NOTICE: DO NOT make any attempt to rerate the furnace by changing gas orifices or the gas pressure. Allow the natural derate of the gas to occur.

FURNACE TWINNING INSTALLATIONS
Twining operation of two furnaces, installed side-by-side, connected by a common duct system with main power supplied by the same source, and controlled by a common thermostat can be done with the Honeywell S9201E2001, UTEC 1012-920 or 1028-927 and Johnson Controls G961DAJ-2401 integrated control boards.

IMPORTANT: TWINNING OF (-)GRJ- AND (-)GTJ- UNITS REQUIRES AN ACCESSORY TWINNING KIT. REFER TO THE SPECIFICATION SHEET FOR PROPER KIT. DO NOT ATTEMPT TO TWIN THESE MODELS BY USING THE INSTRUCTIONS BELOW.

It should be noted that both blowers will run simultaneously when there is a call for heating, cooling or fan. The “OK” LED will flash if twinning is not set up properly.

Johnson Controls G961DAJ-2401

1. Single Stage Operation (See Figure 49)
   a. Control board “ONE” is on the furnace connected to the thermostat.
   b. The 24 VAC supply to both control boards must be in phase with each other.
   c. Connect the “C” “W” and “TWIN” terminals to counterparts on each control.
   d. Both control boards must have switch #1 in the “ON” position.
   e. Control board “ONE” must have switch #2 in the “ON” position. The other control board must have switch #2 in the “OFF” position for single stage heat.

2. Two Stage Operation (See Figure 50)
   a. Follow above instructions except connect “W2” on the thermostat to “W” on control board “TWO.”
   b. Control board “TWO” must be the slave (not connected to the thermostat) in two-stage operation.

UTEC 1012-920 & 1028-927 CONTROL BOARDS

1. Single Stage Operation
   a. Control board “ONE” is on the furnace connected to the thermostat.
   b. The 24 VAC supply to both control boards must be in phase with each other.

NOTE: DO NOT make any attempt to rerate the furnace by changing gas orifices or the gas pressure. Allow the natural derate of the gas to occur.