Description and Application

Vertical louvers are designed to direct the discharge air to provide a wider throw pattern. These vertical louver option packages apply to unit heater Models UDAP, UDAS, UDBP, UDBS, and UEAS as listed in the table below.

<table>
<thead>
<tr>
<th>Models UDAS, UDAP, UDBP, UDBS</th>
<th>30, 45</th>
<th>60, 75</th>
<th>100, 125</th>
<th>150, 175, 200</th>
<th>225, 250</th>
<th>300, 350, 400</th>
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<tr>
<td>Option Pkg P/N</td>
<td>197097</td>
<td>197098</td>
<td>197099</td>
<td>201199</td>
<td>201200</td>
<td>201201</td>
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<tr>
<td>Model UEAS</td>
<td>130, 180</td>
<td>260, 310</td>
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<td></td>
<td></td>
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<tr>
<td>Components - (qty) and P/N</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Louver Frame Top and Bottom</td>
<td>(2)197056</td>
<td>(2)197189</td>
<td>(2)197190</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Louver Frame Sides</td>
<td>(2)197057</td>
<td>(2)197058</td>
<td>(2)197059</td>
<td>(2)197186</td>
<td>(2)197187</td>
<td>(2)197188</td>
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<tr>
<td>Screws</td>
<td>(20) 195638, #8-18 x 3/8&quot; long, AB point, slotted indented serrated hex washer head</td>
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<td></td>
<td></td>
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<tr>
<td>Louvers</td>
<td>(5)196232</td>
<td>(5)196231</td>
<td>(5)196233</td>
<td>(8)196572</td>
<td>(8)196573</td>
<td>(8)195315</td>
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<tr>
<td>Compression Springs</td>
<td>(5)195046</td>
<td>(5)195046</td>
<td>(5)195046</td>
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<td>(8)195046</td>
<td>(8)195046</td>
</tr>
</tbody>
</table>

**Components**

- Louver Frame Top and Bottom
- Louver Frame Sides
- Screws
- Louvers
- Compression Springs

**Installation Instructions**

**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

Installation should be done by a qualified agency in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction.

1. Assemble the Vertical Louver Frame (See FIGURE 1.)

   Using the screws in the kit, attach both sides to the top. (NOTE: Top and bottom are identical.) Attach the assembly to the bottom creating a frame.
Installation Instructions (cont’d)

2. If the heater is installed, for your safety, turn off the gas and the electrical power before installing the vertical louvers.

3. Install the Vertical Louver Frame
   Position the assembled louver frame in the heater outlet so that the holes in the tabs on each side are lined up with the holes in the heater. (The tabs fit between the horizontal louvers.)

   Using the screws in the kit, attach the tabs to the sides of the heater outlet.

4. Install the Vertical Louvers in the Louver Frame Using the Compression Springs (See FIGURE 2.)
   Before actually installing the louvers, note the louver curve and determine how the louvers should be positioned to provide the optimal throw pattern. Depending on where the heater is installed and the desired direction of airflow, louvers may be installed with the curve all the same direction (either way) or the right half one way and the left the other as illustrated in FIGURE 2.

   a) With the wider section facing out of the heater, place one of the compression springs over the tab on the notched end of the louver.

   b) Depending on the throw pattern selected, the end with the spring can go either in the top support or the bottom. See FIGURE 2. Slide the tab with the spring into one of the holes in either the top or bottom support. Push the louver, compressing the spring enough to place the tab on the other end into the corresponding hole in the other support.

   c) Continue installing the louvers until all vertical louvers are in place.

5. Adjust the horizontal and vertical louvers to provide the desired throw pattern.

   CAUTION: To avoid getting burned, adjust louvers while heater is not in operation. If louvers are adjusted while heater is in operation, wear protective gloves.

6. Turn on the electric and the gas. Light by following the lighting instructions on the heater. Check for proper operation.

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FIGURE 2 - Installing Louvers

Front View of Vertical Louver Frame with Louvers Installed
(NOTE: Heater is removed for clarity.)

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