Typical Piping for Conventional Single Boiler Installation
LB-500, LB-750, LB-1000

**APPLICATION TYPE DIAGRAM**
SEE INSTALLATION MANUAL FOR COMPLETE INSTRUCTIONS.
INSTALL IN ACCORDANCE WITH ALL LOCAL CODES.

- SAFETY RELIEF VALVE SETTING SHOULD NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.
- PIPING SHOULD CONFORM TO LOCAL CODES.
- BALL VALVES ARE SHOWN FOR SERVICE. HOWEVER LOCAL CODES SHALL GOVERN THEIR USAGE.
- PIPE RELIEF VALVE TO OPEN DRAIN.

**System Notes:**
- The System Pump must be sized to maintain the minimum recommended flow rate through the boiler. The pump must operate continuous or cycle with the boiler.
- The by-pass is required for systems designed to operate at flow rate higher than the maximum recommended flow rate of the boiler.
- This piping method is not recommended for systems designed to operate with return water temperatures less than 140°F. (See recommend piping method for Low Temperature Heating Systems.)

**Recommended Flow Rate @ 20° (F) Temp. Rise**
<table>
<thead>
<tr>
<th>Model LB</th>
<th>Flow (gpm)</th>
<th>Head Loss (feet)</th>
<th>Boiler Inlet &amp; Outlet (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>44</td>
<td>9.6</td>
<td>2&quot;</td>
</tr>
<tr>
<td>750</td>
<td>66</td>
<td>10.0</td>
<td>2&quot;</td>
</tr>
<tr>
<td>1000</td>
<td>88</td>
<td>8.6</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>
Two Boilers
Reverse Return
LB-500, LB-750, LB-1000

APPLICATION TYPE DIAGRAM
SEE INSTALLATION MANUAL FOR COMPLETE INSTRUCTIONS.

Install in accordance with all local codes.

- Safety relief valve setting should not exceed pressure rating of any component in the system.
- Piping should conform to local codes.
- Ball valves are shown for servicing. However, local codes shall govern their usage.
- Pipe relief valve to open drain

System Notes:

- The system pump must be sized to maintain the minimum recommended flow rate through the boilers. The pump must operate continuous or cycle with the boilers.
- The by-pass is required for systems designed to operate at flow rate higher than the maximum recommended flow rate of the boilers.
- This piping method is not recommended for systems designed to operate with return water temperatures less than 140°F. (See recommend piping method for Low Temperature Heating Systems.)

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