Partial Load Efficiency
Modular heating plants achieve high partial load efficiencies by matching individual modules to light loads. With true parallel primary/secondary piping and correct control including warm weather and night/weekend shutdown, light load equipment cycling is minimized while both unnecessary heating plant operation and excess capacity heat loss paths are completely eliminated. Automatic sequencing and PLC based controls are available upon request.

Modular Heating Plant Layout Schematic
High Efficiency
Series VW boilers are positive pressure non-condensing appliances. They are equipped with forced-draft burners for reliable 83% efficiency. High-temperature fiberglass rope is used to gasket burner flanges to burner ports and steel lids to flue-gathering chambers. Custom-fabricated bent steel turbulators installed in fire-tubes limit flue gas velocity, insuring maximum heat transfer. Heat losses associated with draft hoods and barometric dampers are eliminated and breeching/stack sizes can be reduced.

Low Stress Design
Single pass construction eliminates differential expansion forces across heads, permitting very low return temperatures and immediate “cold starting” response to all calls for heat*

Modular Heating Plants
Multiple VW Boilers can be arranged in a modular configuration to achieve higher capacities and maximum turndown. Compact size individual boilers fit through existing doorways, hallways, elevators, etc. Relatively light weights simplify location of heating plants anywhere within the building.

*Consult factory for boiler configuration/control options required for direct very low temperature operation.
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 Ratings / Data / Dimensions

<table>
<thead>
<tr>
<th>Model / Vp</th>
<th>J. Supply Height</th>
<th>D. Height</th>
<th>A. Skid Length</th>
<th>F. Furnace Vol. (CU. FT.)</th>
<th>Primary SQ. FT. Heating Surface</th>
<th>Oil Burner Motor HP</th>
<th>Boiler Horsepower</th>
<th>L.E.S. Series VW Packaged Boilers</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 to 100 psi Water</td>
<td>Shock-Proof Vertical Design</td>
<td>Unrestricted HVR/HWS Differential</td>
<td>83% Efficiency</td>
<td>Structural Steel Skids</td>
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<tr>
<td>Natural or Propane Gas</td>
<td>#2 Oil, Combination</td>
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</tbody>
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**VW/VWC Boiler Cutaway**

- Ceramic Fiber Blanket
- Bolted/Gasketed Flue Dome
- Bent Steel Turbulators
- Coil for Indirect Heating (Optional)
- Fiberglass Insulation
- Water Surrounded Cylindrical Funace
- Sealed Pan Refractory Bottom
- Structural Steel Skid for Forklift Handling

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**Optional Secondary Circ. Pump**

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