Thermoplastic Water Heaters & Storage Tanks
Available in 55, 80, and 119 Gallon Capacities

FEATURES

Resilient Construction
- Long-life, thermoplastic tank construction
- Seamless vessel construction
- Impervious to water quality variations

Easy to Install
- All plumbing connections are top-mount (on all models)
- Single bolt stainless steel collar streamlines coil/element access

Light weight
No required maintenance
No anode rod required

High Accuracy Temperature controls with Thermistors
- Adjustable setpoint & differentials

Warranty
- 10 year, non-prorated residential warranty
- Optional lifetime residential warranty - visit www.vaughncorp.com
- 5 year non-prorated commercial warranty

Vaughn Combines Exceptional Performance with High Efficiency

The Featherweight line by Vaughn Thermal Corporation represents the latest in water heater and storage tank innovation, continuing Vaughn’s reputation for dependability and longevity in a new lightweight package. With standard top-mount connections and a single bolt stainless steel collar across all models, Featherweight tanks ensure a streamlined installation process—whether an indirect water heater or storage tank—while the monolithic vessel construction will provide years of worry-free service in any residential or commercial application.
**What is Featherweight?**

The Vaughn Featherweight line of water heaters and storage tanks uses proprietary technology to fuse a polybutene inner liner with a polypropylene and fiberglass structural outer layer at the molecular level to create a lightweight, monolithic composite vessel with seamless construction.

**How does Featherweight interact with water**

The two bonded layers of the Featherweight tank continuously replenish and rebalance antioxidant levels throughout the vessel over several decades of service.

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**Stainless Steel Tank**

- Chlorides in domestic water can compromise construction
- Welds represent structural weak points
- Expensive to produce

**Featherweight (thermoplastic)**

- Seamless construction
- No anode rod needed
- No required maintenance
- Immune to water quality variations
- Tolerates higher temperatures and pressures

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**Thermoplastic Vessel**

- Stainless steel flange reinforcements
- Fused, monolithic vessel
- Support stand

Currently available in 55, 80, and 119 gallon configurations. Additional capacities are in development.
**Indirect Tank**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Overall Dimensions (Inches)</th>
<th>Shipping Weight (Lbs)</th>
<th>Domestic Water</th>
<th>Boiler Water Supply/Return (Indirect Tank Heating Coil)</th>
<th>T&amp;P Relief Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Height</td>
<td>Diameter</td>
<td></td>
<td>Cold Water Inlet</td>
<td>Hot Water Outlet</td>
</tr>
<tr>
<td>P55F</td>
<td>41&quot;</td>
<td>28&quot;</td>
<td>95</td>
<td>3/4&quot; MNPT</td>
<td>3/4&quot; FNPT</td>
</tr>
<tr>
<td>P80F</td>
<td>53.5&quot;</td>
<td>28&quot;</td>
<td>125</td>
<td>3/4&quot; MNPT</td>
<td>3/4&quot; FNPT</td>
</tr>
<tr>
<td>P120FD</td>
<td>74&quot;</td>
<td>28&quot;</td>
<td>155</td>
<td>1 1/2&quot; MNPT</td>
<td>1 1/2&quot; FNPT</td>
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**INDIRECT TANK PERFORMANCE**

<table>
<thead>
<tr>
<th>Model</th>
<th>First Hour Rating</th>
<th>Boiler Output (6 GPM @ 200°F)</th>
<th>Boiler Water Continuous Flow</th>
<th>Standby Heat Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>135°F BTU/HR</td>
<td>Flow Rate (GPM)</td>
<td>Head Loss (ft. w.c.)</td>
<td>°F/HR</td>
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<tr>
<td>P55F</td>
<td>212</td>
<td>145,000</td>
<td>8 GPM</td>
<td>18.7</td>
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<tr>
<td>P80F</td>
<td>300</td>
<td>128,000</td>
<td>8 GPM</td>
<td>18.7</td>
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<tr>
<td>P120FD</td>
<td>478</td>
<td>243,000</td>
<td>14 GPM</td>
<td>20</td>
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**Piping Diagram**

**Featherweight Controller (ETC101)**

- Temperature accuracy within 2 degrees
- Eliminates temperature overshooting
- LED displays operating mode

**Controller (ETC101)**

**SYSTEM 2000**

- Vaughn Featherweight Hot Water Indirect Tank
- ETC101 Controller
- Temperature and Thermistor
- Unique Cold Water Diffuser

**FIELD CONNECTIONS**

*Field Removable Heat Exchanger (Top Mount)*

**ETC101 Controller Temperature and Thermistor**

*Temperature accuracy within 2 degrees*
*Eliminates temperature overshooting*
*LED displays operating mode*
Storage Tank

Piping Diagram

Typically Pre-installed On System 2000 Boilers in Bypass

Controller (ETC101)

Temperature accuracy within 2 degrees
- Eliminates temperature overshooting
- LED displays operating mode

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Featherweight Controller (ETC101)

Use Thermistor wire labeled "EK1" for boilers < 150MBH
Use Thermistor wire labeled "EK2" for boiler > 150MBH