FR Series
High Efficiency Oil-Fired Steel Boiler

- Up to 86.7% AFUE
- 90 to 210 Net BTUs
  - In 6 sizes
- Chimney vented
- Integrated boiler control
  - User-friendly
  - Combination high limit circulator relay
  - Extensively tested & proven
- Horizontal firetube heat exchanger, 1/4" and 5/16" boiler-plate steel
  - Meets the ASME Boiler and Pressure Vessel Code
- Domestic hot water coil standard
  - Extended flange on FR98-173
- Wet leg design
  - Provides more heat transfer surface for increased heating efficiency
- Lifetime limited warranty
  - See your installing contractor for more warranty information
## Ratings, Specifications, and Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Burner Capacity (GPH)</th>
<th>DOE Heating Capacity (MBH)</th>
<th>AHRI Net Ratings (MBH)</th>
<th>AFUE %</th>
<th>Water Cap. (Gal.)</th>
<th>Approx. Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR-98-W</td>
<td>.85</td>
<td>104</td>
<td>90</td>
<td>86.4</td>
<td>20</td>
<td>450</td>
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<tr>
<td>FR-122-W</td>
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<td>115</td>
<td>85.1</td>
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<td>FR-147-W</td>
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<td>134</td>
<td>86.7</td>
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<td>720</td>
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<td>720</td>
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<td>86.0</td>
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<td>780</td>
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<td>FR-232-W</td>
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<td>210</td>
<td>85.1</td>
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<td>780</td>
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</table>

Net AHRI Water Ratings shown based on a piping and pickup allowance of 1.15. Consult manufacturer before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc. Extended coil flange on FR-98-173

### Standard Features
- Horizontal firetube boiler
- Integrated boiler control system
- 3450 RPM flame retention
- Beckett oil burner
- Beckett GeniSYS primary control
- Electronic ignitor 14KV
- Taco 007e circulator
- Domestic hot water coil
- Clean cut fuel pump
- Tridicator
- National board registration
- Swing away burner
- HydroStat
- Cast iron observation door
- 1-stage fuel pump
- Hinged flue door

### Dimensions (inches)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
</table>

Nozzle Specs: .75 60°B
Stack Diam. (in.): 6
Tubes: 12
Supply Size (in.): 1 1/4
Return Size (in.): 1 1/4
Minimum Chimney Size (in./in./ft.): 8 x 8 x 15

### Diagrams
- **Front View**
- **Right Side View**