Series 3™

Gas Fired, Chimney Vented, Cast Iron Water Boiler

- 84% AFUE
- Electronic ignition
- Equipped with IQ Control System™
- 70 – 280 MBH (7 sizes)
- Industry standard tapping locations, allows easy, direct replacement for thousands of existing boiler installations
- Solid, reliable, American-made cast iron heat exchanger, designed to promote turbulent water flow within the section for efficient heat transfer
- Lifetime limited warranty

Intelligent Hydronic Control
- Intuitive self-diagnostics
- Combines high limit, relay, and ignition functions into a single module
- Two customizable integrated switching relays for easy addition of additional heating zone or indirect water heater
- Energy saving “thermal purge”, which works by circulating residual warm water (140° or above) in the heating system before firing the boiler

IQ Option Panel
- Enables the easy plug & play installation of optional features such as outdoor reset, LWCO, and high limit

Optional Touchscreen
- LCD displays all boiler settings, diagnostics, and troubleshooting in sentences, not codes
Series 3: Technical Information

### Standard Equipment
- Insulated sleek, modern jacket
- Integrated draft diverter, damper and connector included
- Heavy gauge 1” and 1-1/2” base insulation
- Intelligent Hydronic Control – Simple self-diagnostic control system with 3-digit readout for status settings and errors
- IQ Option Panel, accepts plug & play IQ Option Cards for
  - Outdoor reset with DHW priority
  - Auto or manual reset low water cutoff
  - Auto auxiliary high limit
- Step-opening redundant gas valve
- Spark ignition with continuous retry
- User-friendly wiring with 120V J-box
- Cast iron section assembly
- Resettable blocked vent switch
- Boiler drain valve
- Cast iron supply manifold with safety relief valve tapping

### Series 3 Ratings & Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (MBH)</th>
<th>DOE Heating Capacity (MBH)</th>
<th>Net AHRI Rating, Water (MBH)</th>
<th>AFUE%</th>
<th>Vent Size (Inches)</th>
<th>Approx. Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>303</td>
<td>70</td>
<td>59</td>
<td>51</td>
<td>84.0</td>
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<td>254</td>
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<td>88</td>
<td>77</td>
<td>84.0</td>
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<td>203</td>
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<td>564</td>
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</table>

* Add suffix "N" for natural gas, or suffix "P" for LP gas models

All models certified for use from sea level to 10,000 feet in elevation. Outputs are reduced by 4% per 1,000 feet above sea level for elevations above 2,000 ft.

All Series 3 boilers are shipped with 30 psi relief valves, MAWP is 50 psi.

### Series 3 Dimensions & Connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (inches)</th>
<th>Connections (inches)</th>
<th>Water Content (gal.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>303</td>
<td>Width 12-3/4, Height 41, Depth 33</td>
<td>Supply 1-1/4, Return 1-1/4, Gas Valve 1/2, Relief Valve 3/4</td>
<td>2</td>
</tr>
<tr>
<td>304</td>
<td>Width 15-1/2, Height 41, Depth 33</td>
<td>Supply 1-1/4, Return 1-1/4, Gas Valve 1/2, Relief Valve 3/4</td>
<td>3</td>
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<tr>
<td>305</td>
<td>Width 18-1/2, Height 41, Depth 33</td>
<td>Supply 1-1/4, Return 1-1/4, Gas Valve 1/2, Relief Valve 3/4</td>
<td>4</td>
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<tr>
<td>306</td>
<td>Width 21-1/2, Height 41, Depth 33</td>
<td>Supply 1-1/4, Return 1-1/4, Gas Valve 1/2, Relief Valve 3/4</td>
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<tr>
<td>307</td>
<td>Width 24-3/4, Height 41, Depth 33</td>
<td>Supply 1-1/4, Return 1-1/4, Gas Valve 1/2, Relief Valve 3/4</td>
<td>6</td>
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<tr>
<td>308</td>
<td>Width 27-3/4, Height 41, Depth 33</td>
<td>Supply 1-1/4, Return 1-1/4, Gas Valve 1/2, Relief Valve 3/4</td>
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<td>309</td>
<td>Width 30-3/4, Height 41, Depth 33</td>
<td>Supply 1-1/4, Return 1-1/4, Gas Valve 1/2, Relief Valve 3/4</td>
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</table>

### Ventilation Air Inlet Openings

NOTES:
- CAUTION: Chimney liner may be required by code requirements
- * Minimal radial distance around vent pipe and breeching
- ** Add height required to maintain 6" clearance from all breeching components
- *** Area of each opening 1 sq. inch for each 1,000 BTUH input - with minimum of 100 sq. inches. Height of opening should be half the width.

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