85% Efficient!

Gas Fired, Chimney Vented, Cast Iron Water Boiler

- 85% AFUE
- Electronic ignition
- Easy, intelligent IQ Control System™
- Outdoor reset available – increases efficiency by 15-20%
- 70 – 280 MBH (7 sizes)
- Industry standard tapping locations fit thousands of existing boiler installations
- Reliable, American-made cast iron heat exchanger
- Lifetime limited warranty

Intelligent Hydronic Control
- Provides fast and easy “out of the box” installation.
- Simple codes convey boiler status and eliminate guesswork
- Combines aquastat, relay, and ignition functions into a single module
- Two customizable integrated switching relays for easy addition of additional heating zone or indirect water heater

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
## ES2: 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
- Stainless steel flue baffles
- Spark ignition with retry
- User-friendly wiring with 120V J-box
- Circulator
- Cast iron section assembly
- Resettable blocked vent switch
- Boiler drain valve
- Cast iron supply manifold with safety relief valve tapping

### ES2 Ratings & Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>AFUE%</th>
<th>Input (MBH)</th>
<th>DOE Heating Capacity (MBH)</th>
<th>Net AHRI Water Rating (MBH)</th>
<th>Vent Size (Inches)</th>
<th>Approx. Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES23</td>
<td>85.0</td>
<td>70</td>
<td>59</td>
<td>51</td>
<td>4</td>
<td>254</td>
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<td>89</td>
<td>77</td>
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<td>301</td>
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<td>119</td>
<td>103</td>
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<td>181</td>
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<td>514</td>
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<td>280</td>
<td>238</td>
<td>207</td>
<td>8</td>
<td>564</td>
</tr>
</tbody>
</table>

Available for natural or LP gas

Ratings shown are based on certification to 2,000 ft. For elevations above 2,000 ft, use industry standard derating (4% per 1,000 ft.)

All ES2s are shipped with 30 psi relief valves, MAWP is 50 psi.

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.

### ES2 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></td>
<td>“A”</td>
<td>Height</td>
<td>Depth</td>
</tr>
<tr>
<td>ES23</td>
<td>12-3/4</td>
<td>41</td>
<td>33</td>
</tr>
<tr>
<td>ES24</td>
<td>15-1/2</td>
<td>41</td>
<td>33</td>
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<tr>
<td>ES25</td>
<td>18-1/2</td>
<td>41</td>
<td>33</td>
</tr>
<tr>
<td>ES26</td>
<td>21-1/2</td>
<td>41</td>
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<tr>
<td>ES27</td>
<td>24-3/4</td>
<td>41</td>
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<tr>
<td>ES29</td>
<td>30-3/4</td>
<td>41</td>
<td>33</td>
</tr>
</tbody>
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### Notes:
- Caution: chimney, liner, and vent connector must meet requirements specified by manufacturer’s installation instructions
- Minimal radial distance around vent pipe and breeching
- ** Add height required to maintain 6" clearance from all breeching components

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