ES2™

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

Consists of the Intelligent Hydronic Control and IQ Option Panel

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 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 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>Width</td>
<td>Height</td>
<td>Depth</td>
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<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>
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<td>33</td>
</tr>
<tr>
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<td>24-3/4</td>
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<tr>
<td>ES29</td>
<td>30-3/4</td>
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<td>33</td>
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<tbody>
<tr>
<td></td>
<td>AFUE%</td>
<td>Input (MBH)</td>
<td>DOE Heating Capacity (MBH)</td>
<td>Net AHRI Water Rating (MBH)</td>
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<td>238</td>
<td>207</td>
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</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.

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
*** 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.