





Gas Fired, **Chimney Vented, Cast Iron Water Boiler**

Fully Updated for D.O.E. 2012 Compliance!

- 85% AFUE, ENERGY STAR® certified
- · 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 can accept return water temps as low as 110°F
- Lifetime limited warranty



· Consists of the Intelligent Hydronic Control and IQ Option Panel



Intelligent Hydronic Control

- · Combines aguastat, 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





ES2: Technical Information







Standard Equipment

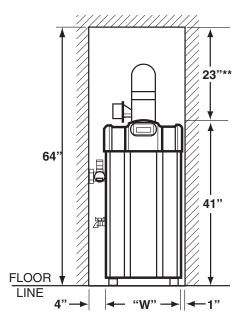
- · Insulated sleek, modern jacket
- · Integrated draft diverter, damper and connector included
- Heavy gauge 1" and 1-1/2" base insulation
- Intelligent Hydronic Control Simple self-diagnostic control system with 3-digit readout for status settings
- · IQ Option Panel, accepts plug & play IQ Option Cards for
 - Outdoor reset with DHW priority
 - Auto or manual reset low water cutoff
 - Auto or manual auxilliary high limit
- · Step-opening redundant gas valve
- · Stainless steel flue baffles
- 110°F minimum return temperature rating
- · Spark ignition with continuous retry
- · User-friendly wiring with 120V J-box
- Taco 007 circulator with piping with wiring harness
- Cast iron section assembly
- Resettable blocked vent switch
- Boiler drain valve
- · Cast iron supply manifold with safety relief valve tapping

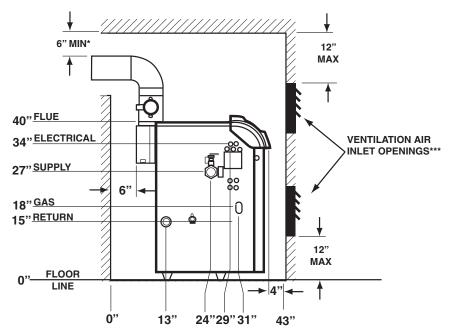
ES2 Ratings & Specifications												
Model	AFUE%	Input (MBH)	DOE Heating Capacity (MBH)	Net AHRI (MBH)	Vent Size (Inches)	Approx. Shipping Weight. (lbs.)						
ES2-3	85	70	59	51	4	254						
ES2-4	85	105	89	77	5	301						
ES2-5	85	140	119	103	6	353						
ES2-6	85	175	149	130	6	405						
ES2-7	85	210	178	155	7	464						
ES2-8	84	245	208	181	7	514						
ES2-9	84	280	208	207	8	564						

* Add suffix "N" for natural gas, or suffix "L" for LP gas models All models certified for use from sea level to 10,000 feet in elevation. Outputs are reduced by 2% per 1,000 feet in elevations from 5,000 to 10,000 feet. All ES2s are shipped with 30 psi relief valves, MAWP is 50 psi.

Burnham ESP with Control inside
U.S. Boiler Company

ES2 Dimensions & Connections												
	Dimen	sions (in	ches)	Connections (inches)				Water				
						Gas	Relief	Content				
Model	Width	Height	Depth	Supply	Return	Valve	Valve	(gal.)				
ES2-3	12-3/4	41	33	1-1/4	1-1/4	1/2	3/4	2				
ES2-4	15-1/2	41	33	1-1/4	1-1/4	1/2	3/4	3				
ES2-5	18-1/2	41	33	1-1/4	1-1/4	1/2	3/4	4				
ES2-6	21-1/2	41	33	1-1/4	1-1/4	1/2	3/4	5				
ES2-7	24-3/4	41	33	1-1/4	1-1/4	3/4	3/4	6				
ES2-8	24-3/4	41	33	1-1/4	1-1/4	3/4	3/4	7				
ES2-9	30-3/4	41	33	1-1/4	1-1/4	3/4	3/4	8				





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.



Phone: 1-888-432-8887