

Burnham

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



UNMATCHED ANYWHERE

IIS

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· Consists of the Intelligent Hydronic Control and **IQ** Option Panel

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







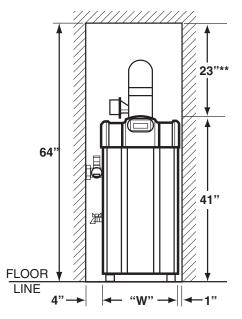
Standard Equipment

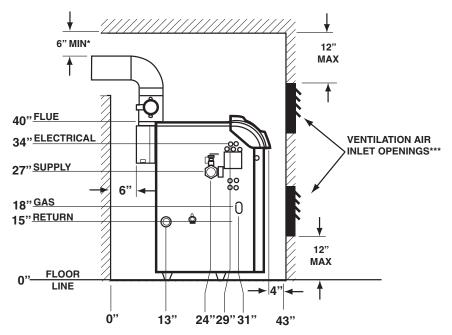
- · Insulated sleek, modern jacket
- · Integrated draft diverter, damper and connector included
- Heavy gauge 1" and 1-1/2" base insulation
- Intelligent Hydronic Control Simple self-diagnostic control system with 3-digit readout for status settings and errors
- IQ Option Panel, accepts plug & play IQ Option Cards for
 - Outdoor reset with DHW priority
 - Auto or manual reset low water cutoff
 - Auto auxilliary high limit
- · Step-opening redundant gas valve
- · Spark ignition with continuous retry
- User-friendly wiring with 120V J-box
- · 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

Series 3 Ratings & Specifications											
Model	Input (MBH)	DOE Heating Capacity (MBH)	Net AHRI Rating, Water (MBH)	AFUE%	Vent Size (Inches)	Approx. Shipping Weight. (lbs.)					
303	70	59	51	84.0	4	254					
304	105	88	77	84.0	5	301					
305	140	117	102	84.0	6	353					
306	175	146	127	84.0	6	405					
307	210	176	153	84.0	7	464					
308	245	205	178	84.0	7	514					
309	280	234	203	84.0	8	564					

* 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												
	Dimen	sions (in	ches)	Connections (inches)				Water				
	147. 111		5			Gas	Relief	Content				
Model	Width	Height	Depth	Supply	Return	Valve	Valve	(gal.)				
303	12-3/4	41	33	1-1/4	1-1/4	1/2	3/4	2				
304	15-1/2	41	33	1-1/4	1-1/4	1/2	3/4	3				
305	18-1/2	41	33	1-1/4	1-1/4	1/2	3/4	4				
306	21-1/2	41	33	1-1/4	1-1/4	1/2	3/4	5				
307	24-3/4	41	33	1-1/4	1-1/4	3/4	3/4	6				
308	27-3/4	41	33	1-1/4	1-1/4	3/4	3/4	7				
309	30-3/4	41	33	1-1/4	1-1/4	3/4	3/4	8				





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.

www.usboiler.net



