

Burnham

Gas Fired, **Direct Vent or Induced Draft, Cast Iron Water Boiler**

- 85% AFUE
- Electronic ignition
- Easy, intelligent IQ Control System™
- Outdoor reset available increases efficiency by 15-20%
- 60 243 MBH (7 sizes)
- · Ideal for installations where chimney venting is not possible, industry standard tapping locations permit ease of replacement for thousands of existing boiler installations
- Rear jacket panel of boiler is flat with no protrusions, simplifies transport and enables flush 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 other ignition functions into a single module
- · Two customizable integrated switching relays for easy integration 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











ESC: Technical Information







Standard Equipment

- · Insulated sleek, modern jacket
- · Heavy gauge 1" 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
- · Stainless steel burner tubes
- · Stainless steel flue gas baffles
- · Spark ignition with continuous retry
- · User-friendly wiring with 120V J-box
- Taco 007 circulator with piping with wiring harness
- · Cast iron section assembly
- · Differential vent pressure switch
- Boiler drain valve
- · Cast iron supply manifold with safety relief valve tapping

ESC Ratings & Specifications											
Model	AFUE%	Input (MBH)	DOE Heating Capacity (MBH)	Net AHRI Water Rating (MBH)	Vent Size (Inches)	Approx. Shipping Weight. (lbs.)					
ESC-3*	85.5	60	52	45	3	250					
ESC-4*	85.4	91	78	68	3	300					
ESC-5*	85.3	121	104	90	3	350					
ESC-6*	85.2	152	130	113	3	410					
ESC-7*	85.0	182	156	136	3	460					
ESC-8	84.5	212	180	157	4	510					
ESC-9	84.0	243	206	179	4	560					

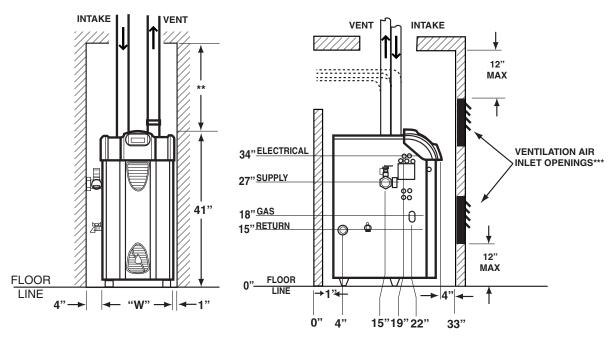
Available for natural or LP gas

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 ESCs 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.

Burnham ESC
with control inside
U.S. Boiler Company

ESC Dimensions & Connections												
	Dimen	sions (in	ches)	Co	Water							
Model	Width	Height	Depth	Supply	Return	Gas Valve	Relief Valve	Content (gal.)				
ESC-3	12-3/4	41	33	1-1/4	1-1/4	1/2	3/4	2				
ESC-4	15-1/2	41	33	1-1/4	1-1/4	1/2	3/4	3				
ESC-5	18-1/2	41	33	1-1/4	1-1/4	1/2	3/4	4				
ESC-6	21-1/2	41	33	1-1/4	1-1/4	1/2	3/4	5				
ESC-7	24-3/4	41	33	1-1/4	1-1/4	3/4	3/4	6				
ESC-8	27-3/4	41	33	1-1/4	1-1/4	3/4	3/4	7				
ESC-9	30-3/4	41	33	1-1/4	1-1/4	3/4	3/4	8				



NOTES:

- * Vent pipe minimum clearance to combustible material is (4) inches when vent is installed in a fully enclosed chased application, or (3) inches when vent is installed with at least one side open, similar to a joist bay application
- ** 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.

