

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 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

- · 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

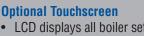


 LCD displays all boiler settings, diagnostics, and troubleshooting in sentences, not codes









ESC: Technical Information







Standard Equipment

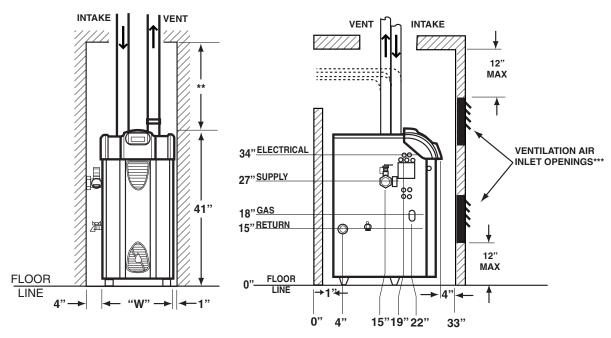
- · Insulated sleek, modern jacket
- Heavy gauge 1" base insulation
- Intelligent Hydronic Control Simple self-diagnostic control system with 3-digit readout for status settings and errors
- · IQ Option Panel, accepts plug & play IQ Option Cards for
 - Outdoor reset with DHW priority
 - Auto or manual reset low water cutoff
 - Auto or manual auxilliary high limit
- · Step-opening redundant gas valve
- · Stainless steel burner tubes
- · Stainless steel flue gas 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
- · 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 (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					

NOTE: An "N" in suffix is for natural gas, an "L" is for LP gas

Burnham ESC with Control inside
U.S. Boiler Company

ESC Dimensions & Connections												
	Dimen	sions (in	ches)	Connections (inches)				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.

