



Burnham® Series 2

Gas Fired, Chimney Vented, Cast Iron Water Boiler

- 82% AFUE
- Electronic ignition
- Equipped with Intelligent Hydronic Control
- 37 – 299 MBH (10 sizes)
- Direct replacement for thousands of existing boiler installations
- Solid, reliable, time tested cast iron boiler with lifetime limited warranty
- Lifetime limited warranty

Intelligent Hydronic Control Features

- 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
- Energy saving “thermal purge”, which works by circulating residual warm water (140° or above) in the heating system before firing the boiler
- LED display for boiler status and trouble codes
- Lower replacement cost
- Wiring harness connectors designed to prevent mis-wiring
- Easily add optional LWCO and auxiliary high limit by plugging components into control – no additional wiring required
- Extensively tested and proven in thousands of existing installations

Intelligent Hydronic Control



Burnham®
by
U.S. Boiler Company



Series 2: Technical Information



Standard Equipment

- Insulated jacket
- Base assembly, includes:
 - 100% shut-off combination step-opening redundant gas valve with regulator section
 - Stainless steel burners
 - Pilot burner
 - Flame roll-out switch
- Intelligent Hydronic Control
- Taco 007 circulator with piping and 5' wiring harness
- Cast iron section assembly
- Boiler drain valve
- High limit control - L4080D
- Transformer/relay control - R8285D
- Resettable blocked vent switch
- Safety relief valve
- Drafthood

Series 2 Ratings & Specifications

Model	AFUE%	Input (MBH)	DOE Heating Capacity (MBH)	Net AHRI (MBH)	Vent Size (Inches)	Approx. Shipping Weight. (lbs.)
202	82.3	37.5	31	27	4	212
202X	83.2	50	42	37	4	262
203	82.6	62	52	45	4	262
204	82.3	96	80	70	5	306
205	82.0	130	108	94	6	354
206	82.0	164	135	117	6	414
207	82.0	198	163	141	7	458
208	82.0	232	191	166	7	514
209	82.0	266	219	190	8	550
210	82.0	299	246	214	8	608

When ordering, add suffix 'N' for natural gas, or 'P' for propane. Water only, 30 PSI maximum working pressure. For elevations above 2000 feet, reduce ratings four percent (4%) per 1000 feet above sea level.



Series 2 Dimensions (inches)

Model	A	B	C	D	E	F	G
202	18-3/4	10-3/4	6-3/8	4	45-1/2	8-1/2	10 (1)
202X	20	12	6	4	45-1/2	8-1/2	4-3/4
203	20	12	6	4	45-1/2	8-1/2	4-3/4
204	23-1/4	15-1/4	7-5/8	5	47-1/8	9-1/8	4-3/4
205	26-1/2	18-1/2	9-1/4	6	48-1/2	9-3/4	5-1/4
206	29-3/4	21-3/4	10-7/8	6	48-1/2	9-3/4	5-1/4
207	33	25	12-1/2	7	50-1/8	10-3/8	6-5/8
208	36-1/4	28-1/4	14-1/8	7	50-1/8	10-3/8	6-5/8
209	39-1/4	31-1/2	15-3/4	8	52	11	7-1/4
210	42-3/4	34-3/4	17-3/8	8	52	11	7-1/4

(1) 202 only. Dimension 'G' includes allowance for 4" x 3" reducer (furnished with boiler)

