



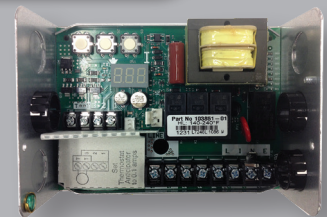
Burnham[®] RSA[™]

Oil Fired, Chimney Vented, Steel Water Boiler

- 84% AFUE
- Steel heat exchanger, vertical firetube design
- Equipped with Intelligent Oil Boiler Control System™
- 4 sizes, 0.75 – 1.35 GPH
- Advanced base and shell design provides high level of heat transfer
- Spiral turbulators provide maximum heat extraction and are removable for easy cleaning
- Simple quick release canopy on the top of the boiler provides easy access for servicing
- Tankless coil available, flange-mounted on front of boiler for easy access
- Lifetime limited warranty
- Available in select markets

Intelligent Oil Boiler Control

- 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
- Extensively tested and proven in thousands of existing installations



Burnham[®]
by
U.S. Boiler Company



RSA: Technical Information



Standard Equipment

- ASME code boiler
- Deluxe insulated jacket
- Pressure/temperature gauge
- ASME code boiler
- Lightweight combustion chamber
- Beckett AFG oil burner with flange*
- Beckett Genisys oil burner control
- Intelligent Oil Boiler Control System
- Circulator
- Quick release canopy
- Relief valve, 30 PSI

*Carlin burners also available

RSA Ratings & Specifications

Model No.	AFUE % (thermal eff.)	Burner Cap. (GPH) ¹	Heating Capacity (Gross Output) MBH ²	Net AHRI (MBH) ³	Tankless Heater GPM ⁴	Flue Collar (In.)	Approx. Ship Wt. (lbs.)
RSAH85	84.0	0.75	89	77	3	6	300
RSAH110	84.0	1.00	119	103	3	6	300
RSAH125	84.0	1.10	131	114	3-1/2	6	340
RSAH135	84.0	1.25	149	130	3-1/2	6	355

Maximum design working pressure: 30 psi water only

1. Firing rate in GPH based on oil having a heat value of 140,000 BTU/GAL.
2. Heating Capacity and AFUE are based on U.S. Government tests at 13.0% CO₂ with a No. 1 maximum smoke.
3. Net ratings shown are based on piping and pick-up allowance of 1.15.
4. Tankless heater ratings based on GAL/MIN of 100°F rise and with 200°F boiler water temperature and a 40°F heater inlet temperature. (Intermittent Draw)

Dimensions (Inches)

Model	A	B	C	D	E	F	G	Minimum Chimney Size (In x In x Ft)
RSAH85	34-3/4	19-1/16	18-3/16	6	18-11/16	1-1/4	1-1/4	8 x 8 x 15
RSAH110	34-3/4	19-1/16	18-3/16	6	18-11/16	1-1/4	1-1/4	8 x 8 x 15
RSAH125	41-1/4	19-1/16	18-3/16	6	18-11/16	1-1/4	1-1/4	8 x 8 x 15
RSAH135	41-1/4	19-1/16	18-3/16	6	18-11/16	1-1/4	1-1/4	8 X 8 X 15

