

8900 SERIES

Domestic Hot Water Heaters and Boilers



RBI®
RELIABLE. BOLD. INNOVATIVE.

8900 SERIES

Reliable Domestic Hot Water and Hydronic Heating Boilers

RBI 8900 Series* non-condensing units offer premium efficiencies and are the most durable and serviceable boilers on the market. They offer a wide 530 to 1,900 MBH size range for applications from car washes to office buildings. All models come with intermittent pilot ignition, adjustable high limit, 24V gas valve with either single-stage, two-stage or four-stage firing.



Standard Equipment

- Glass Lined Headers
- 2-Pass Finned Copper Tube Heat Exchanger, National Board Certified 160 psi ASME
- Slide Out Heat Exchanger for Easy and Economic Maintenance
- ASME Pressure Relief Valve, Mounted
- 2-1/2" Interlocking Combustion Chamber
- Front Mount 24V Controls
- FM/CSD-1 Gas Train Compliant
- Leak Test Valves
- Built-In, Integral Draft Diverter Single Flue Opening
- Flow Switch Mounted and Wired
- Inlet & Outlet Thermometers
- 115/24 Volt Transformer
- Operating Aquastat
- High Limit Control with Manual Reset
- Electronic Intermittent Pilot Ignition
- Single Phase Pump Delay
- Slide Out Burner Tray

Optional Equipment

- Bronze Headers
- On/Off, Two-Stage, Four-Stage
- Dual Flue Outlet (840-1900)
- Power Venter
- High & Low Gas Pressure Switches
- Cupro-Nickel Heat Exchanger
- Low Water Cut-Off
- Alarm for Flame Failure with Silencing Switches

Reliable, Efficient Performance

- Heavy Duty Structural Steel Frame
- Robust Spark Ignition
- 16 or 18-Gauge Sheet Metal Components
- 5-Year Heat Exchanger Warranty, Hot Water Supply Boilers
- 10-Year Heat Exchanger Warranty, Hydronic Heating Boiler



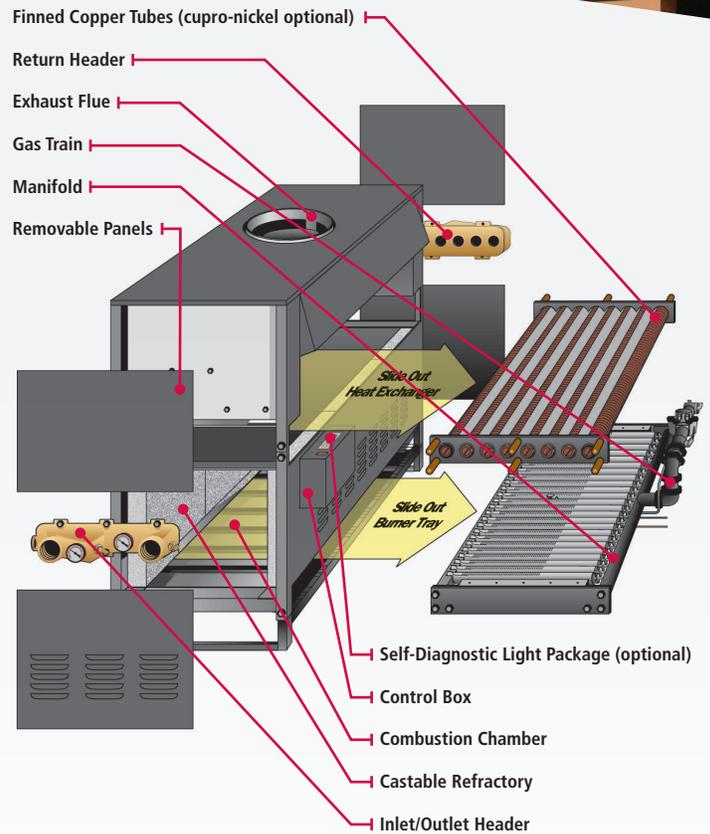
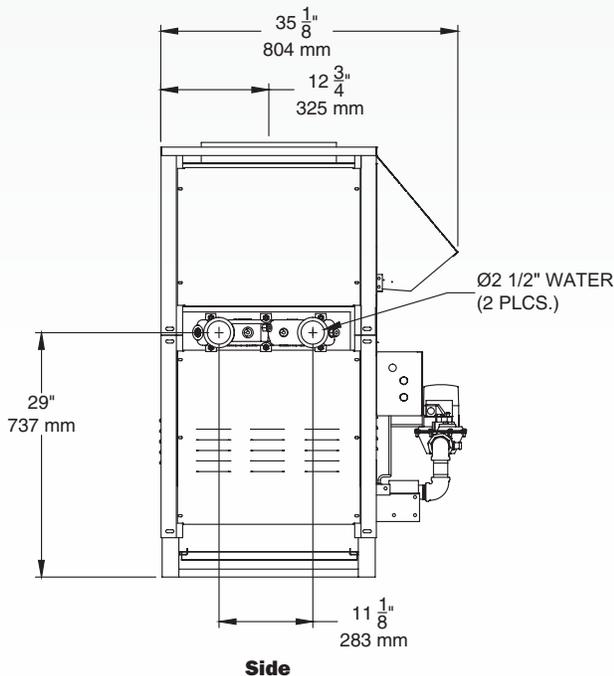
*The 8900 Series are not available for sale in the US or Canada markets due to DOE regulations.



Smart Service Design

Ease of installation and service are trademarks of all RBI water heaters and boilers. Critical components are fully accessible, including slide out burner tray and heat exchanger to make short work of service and maintenance calls. Inspection and replacement of combustion chamber by simple removal of end panel and end refractory can be done in less than 15 minutes. All major components can be inspected or removed without disturbing boiler casing or breaching.

- Slide Out Heat Exchanger
- Up Front 24 Volt Controls
- Slide Out Burner Tray
- High Temperature Ceramic Fiberboard Insulation
- All Major Components can be Inspected or Removed Without Disturbing Boiler Casing or Breaching
- Gas and Water Connections From Either the Left or Right Hand Side of the Unit
- Field Reversible Headers



Notes

- Minimum clearance from combustible material is: 24" Top, 48" front, 18" back and 18" side.
- Minimum frontal clearance for burner service is 36" .
- The 8900 Series are Category I appliances and must be vented into a negative pressure vent system.

Models
 HB = Boiler
 HW = Water Heater

8900 Series — Dimensions and Ratings*																	
Size	Input		Boiler Output		Net Rating		Dim. A		Flue Vent		Dual Exhaust Vent		Connections			Shipping Weight	
	MBH	kW	MBH	kW	MBH	kW	In.	mm	Dim. B		Dim. C		Gas In.		Water	lbs.	kgs.
									In.	mm	In.	mm	Nat.	LP	In.		
530	530	155	429	126	373	109	33	838	10	254	—	—	1	1	2-1/2**	480	218
735	735	215	595	174	517	151	42	1,067	14	356	—	—	1	1	2-1/2**	560	254
840	840	246	680	199	591	173	46-1/2	1,181	14	356	10	254	1	1	2-1/2**	605	274
1050	1,050	308	851	249	740	217	55-1/2	1,410	16	406	12	305	1-1/4	1-1/4	2-1/2	700	318
1260	1,260	369	1,021	299	888	260	64-1/2	1,638	16	406	12	305	1-1/4	1-1/4	2-1/2	790	358
1470	1,470	431	1,191	349	1,036	304	73-1/2	1,867	18	457	14	356	1-1/4	1-1/4	2-1/2	826	375
1900	1,900	557	1,539	451	1,338	392	91-1/2	2,324	20	508	16	406	1-1/2	1-1/2	2-1/2	1,000	454

* Ratings reflect boilers only. For boiler efficiency information please visit www.ahridirectory.org.
 ** 2-1/2" x 2" reducing fitting installed.

8900 Series Boilers — Heat Exchanger Head Loss & Temperature Rise																	
Size	20°F		11.1°C		25°F		13.9°C		30°F		16.7°C		35°F		19.4°C		
	Flow Rate	Pres Drop															
	GPM	Ft	ΔL/s	kPa													
530	42.9	0.7	2.7	2.0	34.3	0.4	2.2	1.3	—	—	—	—	—	—	—	—	
735	59.5	1.6	3.8	4.8	47.6	1.1	3.0	3.2	39.7	0.8	2.5	2.3	34.0	0.6	2.1	1.7	
840	68.0	2.4	4.3	7.0	54.4	1.6	3.4	4.6	45.4	1.1	2.9	3.3	38.9	0.8	2.5	2.5	
1050	85.1	4.4	5.4	12.9	68.0	2.9	4.3	8.6	56.7	2.1	3.6	6.1	48.6	1.6	3.1	4.6	
1260	—	—	—	—	81.6	4.8	5.2	14.2	68.0	3.4	4.3	10.1	58.3	2.6	3.7	7.6	
1470	—	—	—	—	95.3***	7.4	6.0	21.8	79.4	5.3	5.0	15.6	68.0	4.0	4.3	11.7	
1900	—	—	—	—	—	—	—	—	—	—	—	—	87.9	8.1	5.5	23.9	

*** Flow exceeds recommended maximum use a greater temperature rise or consult manufacturer. Cupro-nickel heat exchanger should be considered.

8900 Series Water Heaters — Recovery Capacity ΔT (GPH & LPH)****													
Size	40°F	22°C	60°F	33°C	80°F	44°C	100°F	56°C	120°F	67°C	140°F	78°C	
530	1,288	4,877	859	3,251	644	2,439	515	1,951	429	1,626	368	1,393	
735	1,787	6,764	1,191	4,509	893	3,382	715	2,705	596	2,255	511	1,932	
840	2,042	7,730	1,361	5,153	1,021	3,865	817	3,092	681	2,577	583	2,209	
1050	2,553	9,662	1,702	6,442	1,276	4,831	1,021	3,865	851	3,221	729	2,761	
1260	3,063	11,595	2,042	7,730	1,532	5,797	1,225	4,638	1,021	3,865	875	3,313	
1470	3,574	13,527	2,382	9,018	1,787	6,764	1,429	5,411	1,191	4,509	1,021	3,865	
1900	4,619	17,484	3,079	11,656	2,309	8,742	1,848	6,994	1,540	5,828	1,320	4,996	

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In the interest of product improvement, RBI reserves the right to make changes without notice.