

# 8800 SERIES

## Domestic Hot Water Heaters and Boilers



**RBI**®  
RELIABLE. BOLD. INNOVATIVE.

# 8800 SERIES

## Dependable Domestic Hot Water And Hydronic Heating Boilers... From Car Washes to Condos

RBI 8800 Series\* domestic hot water heaters and boilers provide reliable, efficient operation in a wide variety of commercial applications. Hot water heaters are ideal for applications with load diversity such as apartments/condominiums. The 8800 Series is also suitable for hotels, schools, hospitals, laundries and car washes – wherever a large volume of hot water is needed. High quality construction, quiet operation and a variety of control options also make the 8800 Series the perfect choice for hydronic heating applications with fast response, load matching and energy efficiency.

### Quality Construction for Dependable, Efficient Performance

Integral, 2-pass heat exchanger and standard cast iron headers ensure long-life performance and years of worry-free service. Unique design provides smooth heat transfer and premium non-condensing efficiencies. The 8800 Series virtually eliminates standby losses and condensation problems. The heat exchanger rests on a solid structural frame which reduces thermal shock. All sheet metal components are made of 16 or 18-gauge satin coat steel. Units are equipped with 100% copper and bronze waterway to prevent rust and corrosion.



### Standard Equipment

- Cast Iron Headers
- 2-Pass, Finned Copper Tube Heat Exchanger, National Board Certified 160 psi ASME
- Slide Out Heat Exchanger And Burner Tray
- ASME Pressure Relief Valve, Mounted
- 2-1/2" Interlocking Combustion Chamber
- Built-In, Integral Draft Diverter Single Flue Opening
- Flow Switch Mounted and Wired
- Inlet & Outlet Thermometers
- 115/24 Volt Transformer
- Front Mount 24V Controls
- Operating Aquastat
- Leak Test Valves
- High Limit Control with Manual Reset
- Electronic Intermittent Pilot Ignition
- Single Phase Pump Delay
- Dual Flue (3,200 and Larger)

### Optional Equipment

- Bronze Headers
- On/Off, Two-Stage, Four-Stage
- Dual Flue Outlet (2,400-2,800)
- Single Plenum Flue (3,200-4,000)
- Power Venter
- Low & High Gas Pressure Switches
- Cupro-Nickel Heat Exchanger
- Low Water Cut-Off
- Alarm for Flame Failure with Silencing Switches



\*8800 Series is not available for sale in Ontario, Canada.



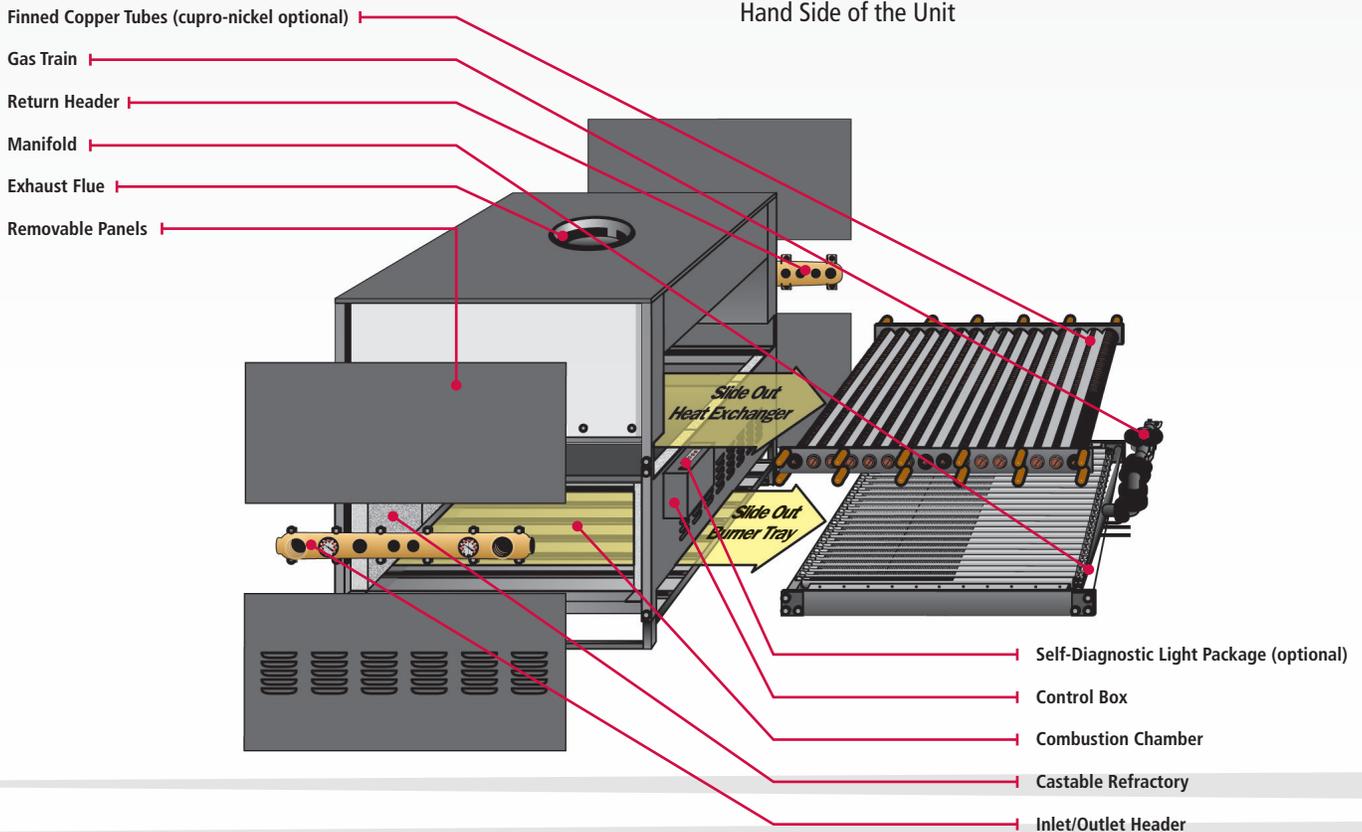
### Reliable, Efficient Performance

- 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

### Smart Service Design

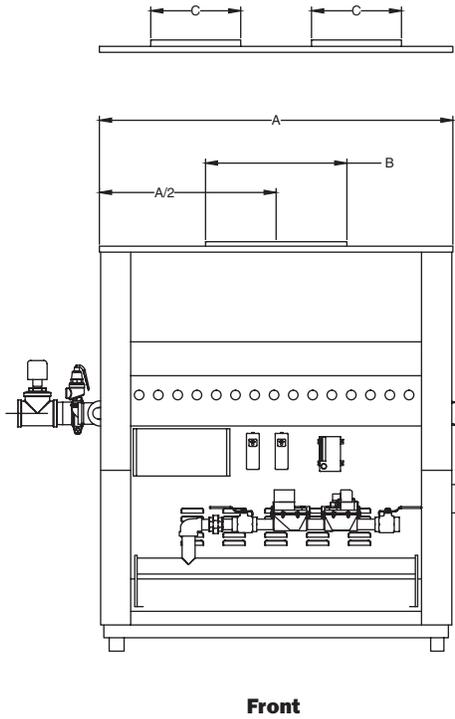
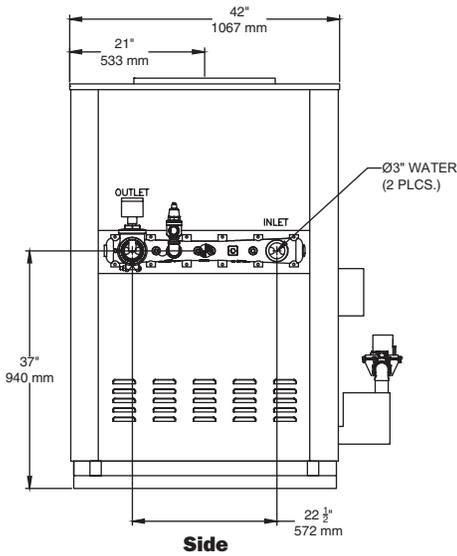
Ease of installation and service are trademarks of all RBI water heaters and boilers. Critical components are fully accessible, including slide out burner tray and heat exchanger to make short work of service and maintenance calls. All major components can be inspected or removed without disturbing boiler casing or breaching.

- Slide Out Heat Exchanger
- Up Front 24 Volt Controls
- Slide Out Burner Tray
- High Temperature Ceramic Fiberboard Insulation
- Victaulic Connections
- Field Reversible Headers
- Gas and Water Connections from Either the Left or Right Hand Side of the Unit





DUAL FLUE COLLECTOR TOP PANEL



**Notes**

- Minimum clearance from combustible material is: 24" top, 48" front, 24" back and 24" side.
- Minimum frontal clearance for burner service is 48".
- The 8800 Series are category I appliances and must be vented into a negative pressure vent system.

**Models**

HB = Boiler

HW = Water Heater

8800 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	In.	mm	In.	mm	Nat.	LP	In.	lbs.	kgs.
2800	2,800	820	2,296	673	1,997	585	73	1,854	26	660	18	457	2	1-1/2	3	1,480	671
3200	3,200	938	2,624	769	2,282	669	82	2,083	28	711	20	508	2	2	3	1,610	730
3600	3,600	1,055	2,952	865	2,567	752	91	2,311	30	762	22	559	2	2	3	1,720	780
4000	4,000	1,172	3,280	961	2,852	836	100	2,540	30	762	22	559	2	2	3	1,900	862

\* Ratings reflect boilers only. For boiler efficiency information please visit [www.ahridirectory.org](http://www.ahridirectory.org).

8800 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													
2800	—	—	—	—	183.7	6.9	11.6	20.3	153.1	4.9	9.7	14.5	131.2	3.7	8.3	10.9	
3200	—	—	—	—	—	—	—	—	174.9	7.2	11.0	21.1	149.9	5.4	9.5	15.8	
3600	—	—	—	—	—	—	—	—	196.8**	10.0	12.4	29.3	168.7	7.5	10.6	22.0	
4000	—	—	—	—	—	—	—	—	—	—	—	—	187.4*	10.1	11.8	29.6	

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

8800 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
	2800	6,891	26,084	4,594	17,390	3,445	13,042	2,756	10,434	2,297	8,695	1,969
3200	7,875	29,811	5,250	19,874	3,938	14,905	3,150	11,924	2,625	9,937	2,250	8,517
3600	8,860	33,537	5,906	22,358	4,430	16,769	3,544	13,415	2,953	11,179	2,531	9,582
4000	9,844	37,263	6,563	24,842	4,922	18,632	3,938	14,905	3,281	12,421	2,813	10,647

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