

LCD DOMINATOR
SERIES

Domestic Hot Water Heaters and Boilers



RBI®



Indoor/Outdoor, Water Heaters and Hydronic Heating Boilers



The LCD Dominator® Series from RBI offers competitively-priced indoor/outdoor units that meet low NOx requirements, while maintaining superior performance and serviceability. The LCD provides dependable performance in rugged environments and process applications, with a wide 225 – 2300 MBH range. At the heart of the unit is a sealed combustion chamber that provides the flexibility of using outside air or mechanical room air for combustion. Priced in line with the atmospheric category heaters, the LCD features smaller vent sizes, resulting in a lower total installation cost.

Standard Equipment

- Finned Copper Tube Heat Exchanger, ASME 160# Max WP, Two-Pass
- Mounted & Wired Flow Switch
- FM Compliant Gas Train
- Sealed Combustion Chamber – Near Condensing
- Mounted ASME Relief Valve (50# Boilers, 125# Water Heaters)
- Pump Delay Control
- Factory Fired Tested
- Barometric Damper (Cat I)

Dependable, Efficient Performance

- 82% Efficient
- Uginox Alloy Stainless Steel Burners
- Bronze Headers – Water Heaters
- Cast Iron Headers – Boilers
- On/Off, All Sizes 2-Stage, 600-2300
- Cat I Venting (Vertical)
- Cat III Thru-Wall (up to 35' Equivalent)

LCD Dominator Series boilers and water heaters are also available with appealing, corrosion-resistant, brushed stainless steel jacket. Ideal for outdoor or indoor installation in corrosive or harsh environments such as coastal areas and processing applications requiring wash down.

Easy to Install and Service

- Spin-Off Pilot Service Portal for Easy Access (Sizes 750-2300)
- Slide-Out Heat Exchanger
- Side Intake, All Sizes
- Rear Intake, Sizes 750-2300
- Stackable Frame with Seismic Approval (up to Zone 4)
- Horizontal/Vertical Venting Options
- Power Vent Option for Thru-Wall Venting
- Low Voltage Controls
- Direct Vent (up to 35' Equivalent)

Optional Features

- Cupro-Nickel Heat Exchanger
- Outdoor Installation
- Stainless Steel Jacket
- Freeze Protection Package
- CSD-1 Compliant Gas Train and Controls

Outdoor Approved

Unlike traditional atmospheric outdoor units, the fan-assisted combustion design of the LCD provides reliable operation. Outdoor concerns associated with pilot outages and poor combustion are eliminated with the LCD's proven pilot ignition and fan-assisted combustion systems.

The LCD Dominator is also available with corrosion-resistant, brushed stainless steel jacket, making it the ideal choice for harsh outdoor environments and process applications.



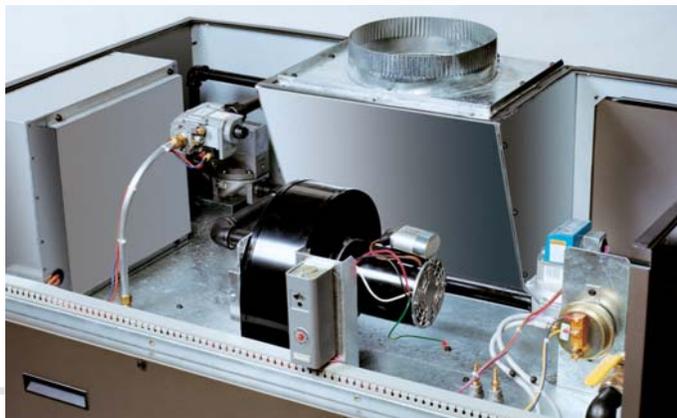
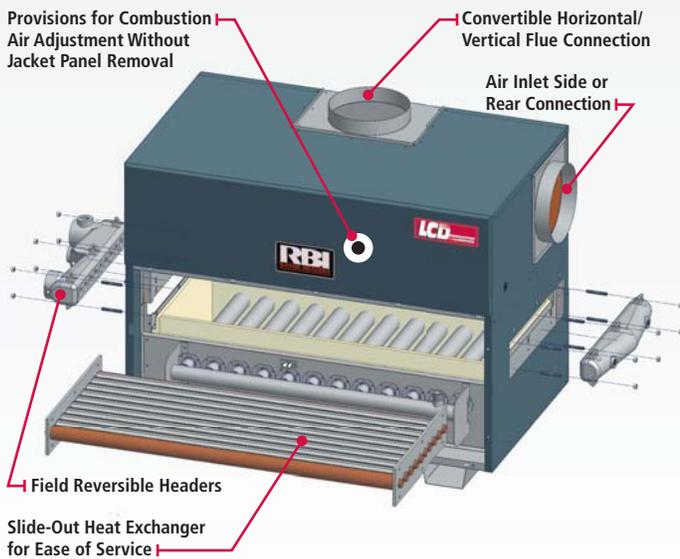
Proven Pilot Ignition System

The unique pilot ignition is safer and more reliable than the hot surface systems commonly used on other manufacturers' equipment.

The system employs a burner tube as a pilot. Gas is injected into a single burner and ignited by spark. A flame rod then monitors the pilot tube flame. Once the pilot is proven, the main gas valves are powered and the remaining burner tubes are safely lit. This proven system offers greater dependability and is superior to fragile HSI systems that can require frequent replacement.

Smart Service Design

Ease of installation and service are trademarks of all RBI water heaters and boilers. Critical components are fully accessible for faster, easier service and maintenance calls. The LCD's sealed combustion chamber features a slide-out heat exchanger for less time-consuming service and repair. At just 29.5" wide, the LCD fits easily through standard doorways.



Critical components are located conveniently at the top of the boiler for easy access.

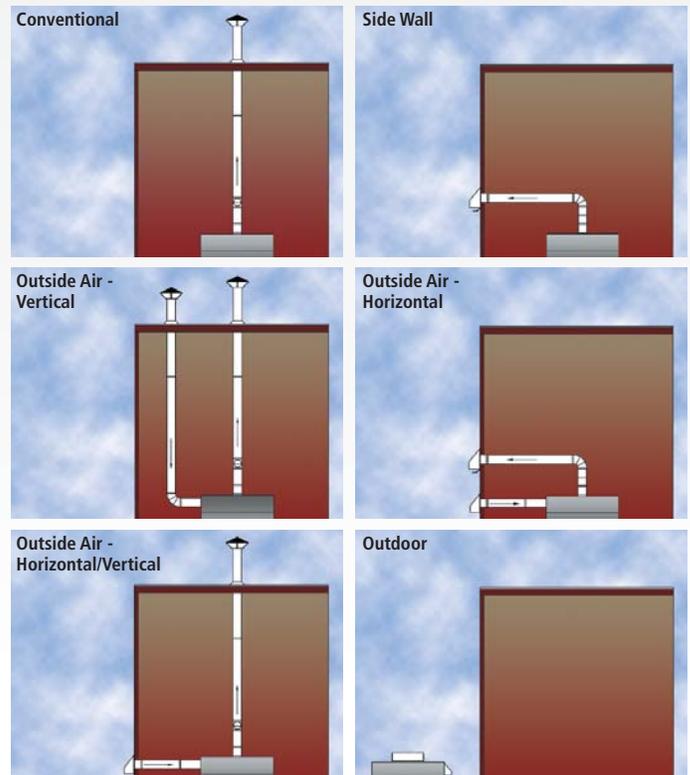


Rack and Stack

The LCD offers greater flexibility and ease of installation in a space-saving design that leaves more elbowroom in the mechanical room. A rugged frame and stackable design allow for the installation of two units in one small footprint.

Wide Variety of Venting Options

The LCD provides added flexibility and ease of installation with multiple venting options and configurations. The sealed combustion chamber minimizes heat loss and requires less clearance from combustible walls.



Quality Construction

The LCD features a robust, compact design using the best materials for more dependable performance. Quality components include stainless steel burner tubes and solid bronze headers on water heaters. The LCD's design requires fewer blowers and gas valves to achieved staged firing. Fewer components mean reduced complexity and easier serviceability.

LCD Dominator Series — Dimensions and Ratings

Model	Input		Output		Net Rating		Dim. A		Flue Vent Dim. B		Connections			Ducted Air Dim. C		Shipping Weight	
	MBH	kW	MBH	kW	MBH	kW	In.	mm	In.	mm	Gas In.		Water In.	In.	mm	lbs.	kgs.
											Nat.	LP					
LB/LW 225	225	66	187	55	161	47	22-1/8	562	6	152	.75	.75	1.50	6	152	325	148
LB/LW 300	299	88	245	72	214	62	22-1/8	562	6	152	.75	.75	1.50	6	152	325	148
LB/LW 400	399	117	327	96	282	83	28-5/8	727	6	152	.75	.75	1.50	6	152	430	195
LB/LW 600	600	176	492	144	424	124	36-1/8	892	7	178	1	1	2.50	8	203	580	263
LB/LW 750	750	220	615	180	530	155	41-5/8	1,057	8	203	1	1	2.50	8	203	725	329
LB/LW 1050	1,050	308	861	252	742	217	58-3/8	1,483	10	254	1.25	1.25	2.50	10	254	805	365
LB/LW 1200	1,200	352	984	288	848	249	71-3/8	1,813	12	305	1.25	1.25	2.50	12	305	875	397
LB/LW 1480	1,480	434	1,214	356	1,045	306	71-3/8	1,813	12	305	1.50	1.50	2.50	12	305	1,110	504
LB/LW 1650	1,650	483	1,353	396	1,161	340	77-7/8	1,978	14*	356*	1.50	1.50	2.50	12	305	1,130	513
LB/LW 1970	1,970	577	1,615	473	1,393	408	97-3/8	2,473	14*	356*	1.50	1.50	2.50	12	305	1,375	624
LB/LW 2300	2,300	674	1,886	553	1,626	476	103-7/8	2,638	14*	356*	2	2	2.50	12	305	1,435	651

* 14" oval to round transition piece.

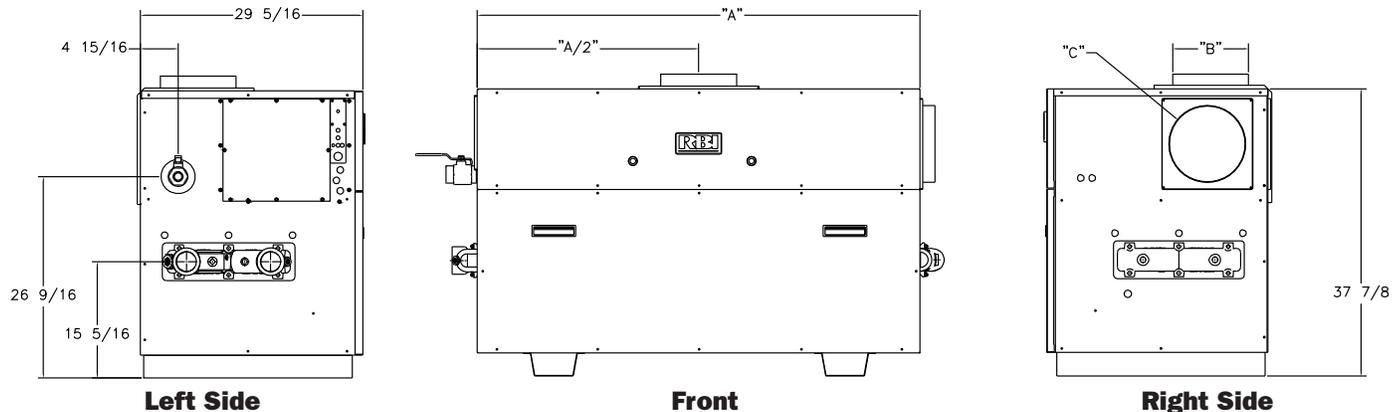
LCD Dominator Series — Hourly Recovery Capacity ΔT (GPH & LPH)

Model	40°F	22°C	60°F	33°C	80°F	44°C	100°F	56°C	120°F	67°C	140°F	78°C
LB/LW 225	560	2,122	374	1,414	280	1,061	224	849	187	707	160	606
LB/LW 300	736	2,785	491	1,857	368	1,393	294	1,114	245	928	210	796
LB/LW 400	982	3,717	655	2,478	491	1,859	393	1,487	327	1,239	281	1,062
LB/LW 600	1,477	5,590	984	3,726	738	2,795	591	2,236	492	1,863	422	1,591
LB/LW 750	1,846	6,987	1,230	4,658	923	3,492	738	2,795	615	2,329	527	1,996
LB/LW 1050	2,584	9,782	1,723	6,521	1,292	4,891	1,034	3,913	861	3,261	738	2,795
LB/LW 1200	2,953	11,179	1,969	7,453	1,477	5,590	1,181	4,472	984	3,726	844	3,194
LB/LW 1480	3,642	13,787	2,428	9,192	1,821	6,894	1,457	5,515	1,214	4,596	1,041	3,939
LB/LW 1650	4,061	15,371	2,707	10,247	2,030	7,686	1,624	6,148	1,354	5,124	1,160	4,392
LB/LW 1970	4,848	18,352	3,232	12,234	2,424	9,176	1,939	7,341	1,616	6,117	1,385	5,243
LB/LW 2300	5,660	21,426	3,773	14,284	2,830	10,713	2,264	8,570	1,887	7,142	1,617	6,122

LCD Dominator Series — Heat Exchanger Temperature Rise/Pressure Drop

Model	15°F		8.3°C		20°F		11.1°C		25°F		13.9°C		30°F		16.7°C		35°F		19.4°C	
	Flow Rate	Pres Drop	Flow Rate	Pres Drop	Flow Rate	Pres Drop	Flow Rate	Pres Drop	Flow Rate	Pres Drop	Flow Rate	Pres Drop	Flow Rate	Pres Drop	Flow Rate	Pres Drop	Flow Rate	Pres Drop	Flow Rate	Pres Drop
	GPM	Ft	$\Delta L/s$	kPa	GPM	Ft	$\Delta L/s$	kPa	GPM	Ft	$\Delta L/s$	kPa	GPM	Ft	$\Delta L/s$	kPa	GPM	Ft	$\Delta L/s$	kPa
LB/LW 225	24.6	0.18	1.6	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB/LW 300	32.8	0.31	2.1	0.9	24.6	0.18	1.6	0.5	-	-	-	-	-	-	-	-	-	-	-	-
LB/LW 400	43.7	0.70	2.8	2.1	32.8	0.41	2.1	1.2	26.2	0.27	1.7	0.8	-	-	-	-	-	-	-	-
LB/LW 600	65.6	1.84	4.1	5.4	49.2	1.08	3.1	3.2	39.4	0.71	2.5	2.1	32.8	0.51	2.1	1.5	28.1	0.38	1.8	1.1
LB/LW 750	82.0	3.32	5.2	9.8	61.5	1.95	3.9	5.7	49.2	1.29	3.1	3.8	41.0	0.92	2.6	2.7	35.1	0.69	2.2	2.0
LB/LW 1050	-	-	-	-	86.1	5.16	5.4	15.2	68.9	3.41	4.3	10.1	57.4	2.44	3.6	7.2	49.2	1.83	3.1	5.4
LB/LW 1200	-	-	-	-	98.4*	8.14	6.2	24.0	78.7	5.38	5.0	15.9	65.6	3.84	4.1	11.3	56.2	2.89	3.5	8.5
LB/LW 1480	-	-	-	-	121.4*	7.94	7.7	23.4	97.1	5.25	6.1	15.5	80.9	3.75	5.1	11.0	69.3	2.82	4.4	8.3
LB/LW 1650	-	-	-	-	-	-	-	-	108.2	7.02	6.8	20.7	90.2	5.01	5.7	14.8	77.3	3.77	4.9	11.1
LB/LW 1970	-	-	-	-	-	-	-	-	-	-	-	-	107.7	8.75	6.8	25.8	92.3	6.58	5.8	19.4
LB/LW 2300	-	-	-	-	-	-	-	-	-	-	-	-	125.7*	12.45	7.9	36.7	107.8	9.36	6.8	27.6

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



Note: Dimensions are approximate and should not be used to "rough-in" equipment.



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