



*2023 DEPARTMENT OF  
ENERGY EFFICIENCY  
COMPLIANT*

**Ideal for Light Commercial and Commercial Applications**

Large residential, Multi-Family, Municipal, Education & College  
Campus, Religious, and Institutional.

# LGB Steam | Water Boilers

## STANDARD EQUIPMENT:

- Cast iron sections
- 2023 DOE regulatory compliant
  - 81% Thermal Efficiency (Steam)
  - 84% Thermal Efficiency (Water)
- Steam and water heating designs
- 350-2470 MBH performance range
- Natural gas fuel
- Standard 5.75" gas train
- 2-stage low, high, low combustion
- 350-2470 MBH performance range
  - LGB 4R, 4, 5, 6, 7, 8, 9, 10, 11, & 12 section configurations
  - LGB 14, 16, 18, & 20 section configurations
- Insulated extended jacket
- Aluminized steel collector hood(s)
- Boiler design tested for 80 psig working pressure
- 120/24V control transformer
- Factory-packaged burner-base assembly
  - One-piece, stainless steel burners, gas distribution
  - Manifold, steel base panels, and high temperature insulation board panels
- Wiring harness, junction box and pre-wired flexible conduit
- Plug-and-play, draft inducer - reduced installation height requirement
- Vent adaptors
- LCD controller
- Streamlined, contractor-friendly installation
- Refreshed aesthetic design

## WATER BOILERS STANDARD EQUIPMENT

- Combination operating & high limit temperature control
- Combination pressure/temperature gauge
- 30 psi, ASME relief valve — outlet side
- Integrated air eliminator end section design
- Probe type low water cut-off (packaged only)
- CAT II vent design compliant

## STEAM BOILERS STANDARD EQUIPMENT

- Operating pressure control
- High limit pressure control
- Compound pressure/vacuum gauge
- Gauge cocks, glass & guards
- 15 psi, ASME relief valve — side outlet
- Float type water cut-off
- CAT I vent design compliant

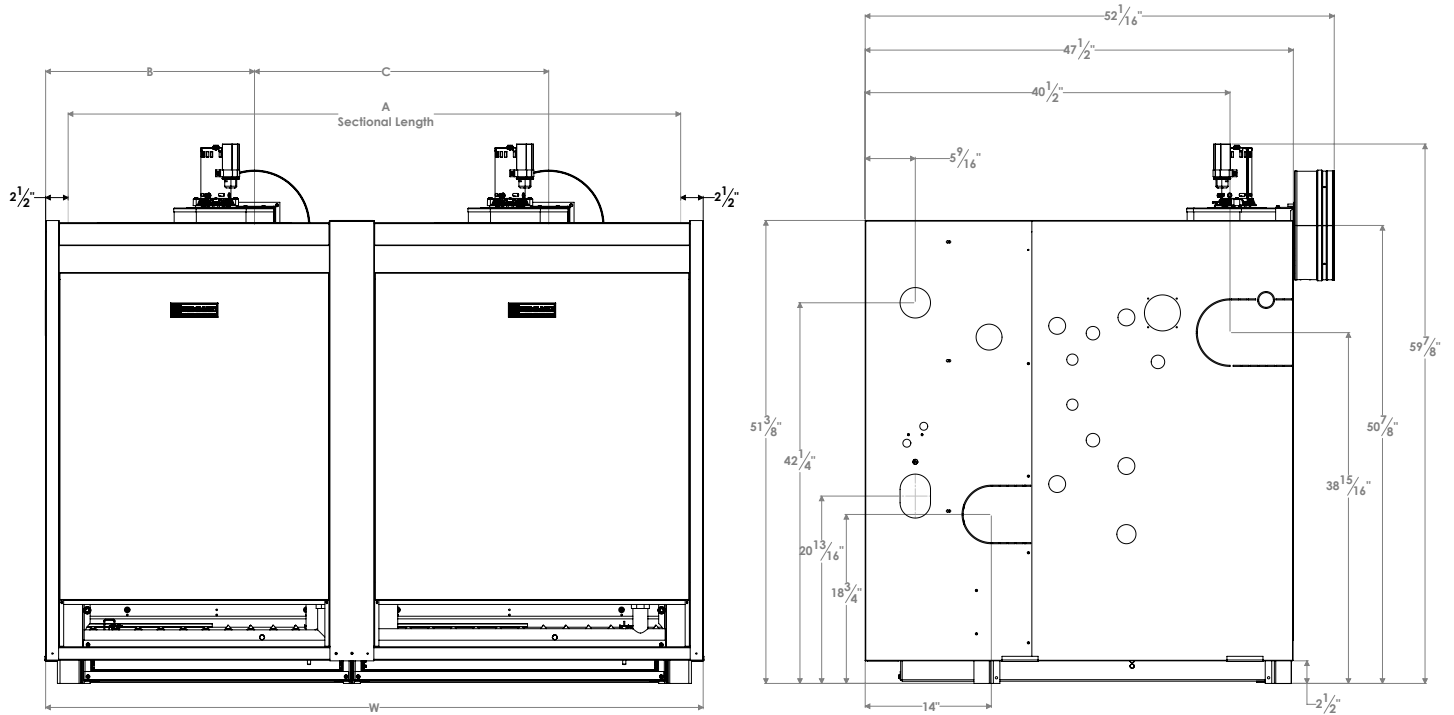
## ENHANCED STANDARD CONTROLS

- LCD back-lit, digital display
- 2-line, English explanations
- Easy start-up programming prompts
- Directional navigation buttons
- Improved plug-and play wiring approach
  - color-coded, pre-wired terminal blocks
- Modbus capable
- CSD-1 and FM options
- Clean finished installation

## LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 1 Year Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

# Dimensions



Model	Supply Tappings		Return Tappings		Dimensions (In.)				Gas Train (5.75")		Vent Adaptor Outlet(s)	
	Qty	Size	Qty	Size	A	B	C	W	Qty	Conn. Size	Qty	Size
LGB-4R	2	6"	2	5"	18"	15"	—	23"	1	1"	1	10
LGB-4	2	6"	2	5"	18"	15"	—	23"	1	1"	1	10
LGB-5	2	6"	2	5"	23"	18 $\frac{3}{16}$ "	—	28"	1	1"	1	12
LGB-6	2	6"	2	5"	28"	20 $\frac{1}{16}$ "	—	33"	1	1 $\frac{1}{4}$ "	1	12
LGB-7	2	6"	2	5"	33"	23 $\frac{3}{16}$ "	—	38"	1	1 $\frac{1}{4}$ "	1	12
LGB-8	2	6"	2	5"	38"	25 $\frac{1}{16}$ "	—	43"	1	1 $\frac{1}{4}$ "	1	14
LGB-9	2	6"	2	5"	43"	28 $\frac{3}{16}$ "	—	48"	1	1 $\frac{1}{4}$ "	1	14
LGB-10	2	6"	2	5"	48"	30 $\frac{1}{16}$ "	—	53"	1	1 $\frac{1}{2}$ "	1	16
LGB-11	2	6"	2	5"	53"	33 $\frac{3}{16}$ "	—	58"	1	2"	1	16
LGB-12	2	6"	2	5"	58"	35 $\frac{1}{16}$ "	—	63"	1	2"	1	16
LGB-14	2	6"	2	5"	68"	23 $\frac{3}{16}$ "	32 $\frac{1}{16}$ "	73"	1	2"	2	12 14
LGB-16	2	6"	2	5"	78"	28 $\frac{3}{16}$ "	37 $\frac{1}{16}$ "	83"	1	2"	2	14 14
LGB-18	2	6"	2	5"	88"	28 $\frac{3}{16}$ "	42 $\frac{1}{16}$ "	93"	1	2"	2	14 16
LGB-20	2	6"	2	5"	98"	33 $\frac{3}{16}$ "	47 $\frac{1}{16}$ "	103"	1	2"	2	16 16

## RATINGS

Model	Input (BTU/Hr)	Minimum Input (BTU/Hr)	Steam Gross Output <sup>1</sup> (BTU/Hr)	Water Gross Output <sup>1</sup> (BTU/Hr)	Net Ratings			Boiler H.P.	Thermal Efficiency	
					Steam (Sq.Ft.)	Steam (MBH)	Water (MBH)		Water	Steam
LGB-4R	350,000	175,000	283,000	294,000	885	212	256	8.5	84%	81%
LGB-4	400,000	200,000	324,000	336,000	1013	243	292	9.7	84%	81%
LGB-5	520,000	260,000	421,000	436,000	1316	316	379	12.6	84%	81%
LGB-6	650,000	325,000	526,000	546,000	1644	395	475	15.7	84%	81%
LGB-7	780,000	390,000	631,000	655,000	1972	473	570	18.8	84%	81%
LGB-8	910,000	455,000	737,000	764,000	2304	553	664	22.0	84%	81%
LGB-9	1,040,000	520,000	842,000	873,000	2632	632	759	25.2	84%	81%
LGB-10	1,170,000	585,000	947,000	982,000	2960	710	854	28.3	84%	81%
LGB-11	1,300,000	650,000	1,053,000	1,092,000	3303	793	950	31.5	84%	81%
LGB-12	1,430,000	715,000	1,158,000	1,201,000	3666	880	1044	34.6	84%	81%
LGB-14	1,690,000	845,000	1,368,000	1,419,000	4394	1054	1234	40.9	84%	81%
LGB-16	1,950,000	975,000	1,579,000	1,638,000	5108	1226	1424	47.2	84%	81%
LGB-18	2,210,000	1,105,000	1,790,000	1,856,000	5791	1390	1614	53.5	84%	81%
LGB-20	2,470,000	1,235,000	2,000,000	2,074,000	6470	1553	1803	59.7	84%	81%

<sup>1</sup>AHRI Certified Ratings

## Technical Data

Model	Boiler Water Content		Approx. Shipping Weight (Lbs.)	Packaged Boiler Options		Chimney Breaching Size (I.D.) (Inches)
	Steam to Waterline (Gallons)	Water (Gallons)		Assembled Block Approx. Weight (Lbs)	Packaged Boiler Approx. Weight (Lbs)	
LGB-4R	23.2	36.5	1298	1064	1777	10
LGB-4	23.2	36.5	1598	1064	1777	10
LGB-5	28.9	45.6	1898	1321	1994	12
LGB-6	34.6	54.7	2198	1578	2216	12
LGB-7	40.3	63.9	2498	1835	2550	12
LGB-8	46.0	73.0	2798	2117	2773	14
LGB-9	51.9	82.1	3098	2375	3108	14
LGB-10	57.6	91.2	3398	2657	3442	16
LGB-11	63.4	100.4	3698	2914	3669	16
LGB-12	69.1	109.5	3998	3196	3895	16
LGB-14	80.7	127.7	4298	3740	4779	16
LGB-16	92.2	146.0	4598	—	—	17
LGB-18	103.6	164.2	4898	—	—	18
LGB-20	115.3	182.5	5198	—	—	19

Actual Inlet Natural Gas Pressure (psi)	LGB-4R & LGB-4		LGB-5 thru LGB-20	
	Derate Multiplier	Resulting Manifold Gas Pressure	Derate Multiplier	Resulting Manifold Gas Pressure
5.50	-	-	0.950	3.2
5.25	-	-	0.930	3.1
5.00	-	-	0.900	2.8
4.75	0.98	3.43	0.880	2.7
4.50	0.95	3.23	0.820	2.3
4.25	0.91	2.99	0.790	2.2
4.00	0.90	2.88	0.770	2.1

