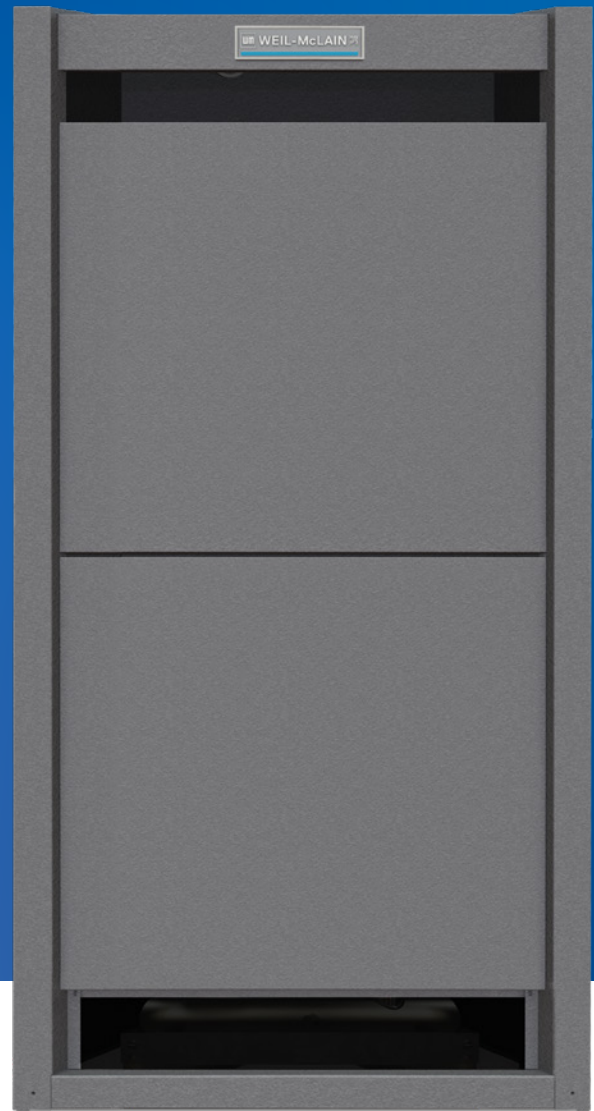


COMMERCIAL GAS BOILER

Steam or Water | Natural Gas | 400–2860 MBH | 20 Sizes
Series 2 | Up to 85.1% Thermal Efficiency*

*BUILT ON
STRENGTH*
**ENGINEERED
TO PERFORM**

Proven reliability for large
residential and commercial
heating applications



LGB STEAM & WATER BOILERS

Weil-McLain LGB Series 2 boilers deliver dependable steam or water heat with a proven cast iron design that has been serving the market for decades. The contractors choice for ease of installation and service, LGB boilers provide reliable performance and long-lasting comfort for light commercial and large space heating applications.

APPLICATIONS

- Large residential
- Multi-family
- Medical
- Educational & college
- Municipal
- Religious
- Brewery & distillery
- Institutional
- Multiple boilers
- Indirect-fired water heating



STANDARD EQUIPMENT

ALL BOILERS

- Cast iron sections, aluminized steel collector and draft hood(s), insulated jacket and 120/24V control transformer
- Factory-assembled burner and base unit(s) to include: one-piece aluminized steel burners, gas manifold, aluminized steel base panels, and hi-temp insulated board.
- Wiring harness with junction box and pre-wired, flexible conduit

STEAM BOILERS

- Operating pressure and high limit controls
- Compound pressure-vacuum gauge
- Gauge cocks, glass and guards
- 15 psi ASME relief valve (side outlet)
- Float-type low water cut-off

WATER BOILERS

- Combination operating and high limit temperature controls (LGB 4-20 models)
- Operating temperature control (LGB21-23 models)
- High limit temperature control (LGB 21-23 models)
- Combination pressure-temperature gauge
- 30 psi, ASME relief valve (side outlet)
- Built-in air eliminator in end sections
- Probe-type low water cut-off (packaged units only)

LGB 4-5 MODELS

- Intermittent electronic ignition systems (UCS) to include
 - Intermittent ignition control module
 - Electronically supervised pilot burner with ignition electrode and flame rod
 - Wire harness

LGB 6-23 MODELS

- Flame guardian panel with flame rectification electronic control system for each base assembly
- Pre-wired control panel
 - Terminal block
 - Two ignition control modules with integral spark generators
 - Intermittent electronic ignition pilot system
 - Electronically supervised pilot burner with ignition electrode and flame rod
 - Main flame sensor rod

ADDITIONAL/OPTIONAL EQUIPMENT

- WFFP control panels (LGB 6-23 models)
- Probe-type low water cut-off
- Factory-assembled sections (LGB 4-14 models)
- Fire-tested packaged units (LGB 4-14 models)
- 1 1/2" inspection tapping with brass plugs (two for each section)
- 80 psi working pressure test of sections
- Water level controls and low water cut-offs
- Low-high-low firing (LGB 6-12 models)
- Stage firing (LGB 13-23 models)
- Energy management control systems (BCP panels)
- FM and CSD-1 control systems
- Natural gas to propane gas conversion kit

CONTROLS

WFFP CONTROL STANDARD FEATURES

- WFFP-1 Panel (LGB 6-12 models)
- WFFP-2 Panel (LGB 13-23 model)
 - 30-second time delay relay (two on WFFP-2)
 - Two DPDT relays / 24V (four on WFFP-2)
 - Terminal block
 - Fuse (two on WFFP-2 control)
 - Toggle switch
 - Four indicator lamps (eight on WFFP-2)

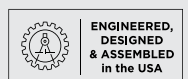
WFFP OPTIONAL ACCESSORIES

- Alarm bell and transformer for remote indication of flame failure
- Alarm bell - panel mounted

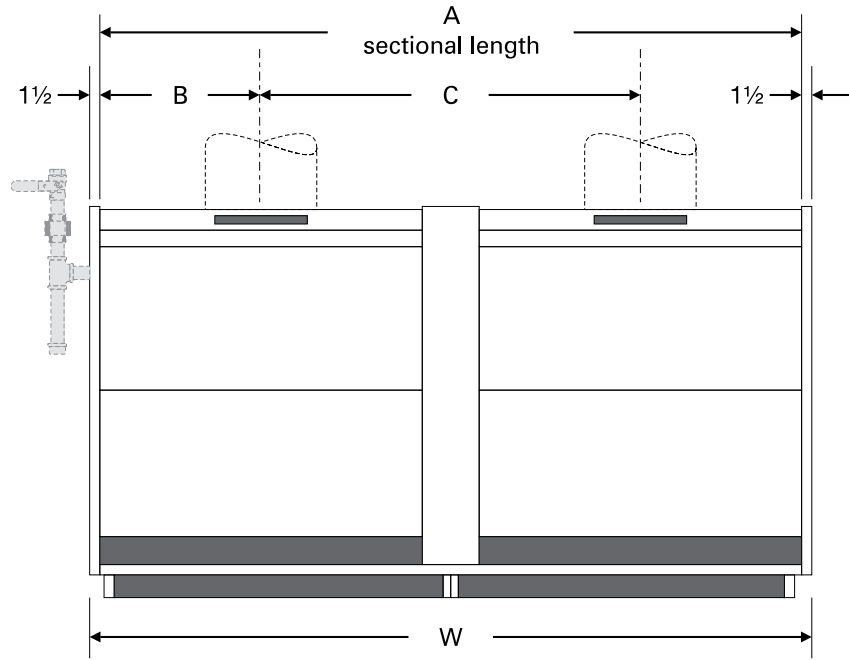
WARRANTY

Limited transferable, Non-prorated

- 10 years on heat exchanger
- 1 year on parts

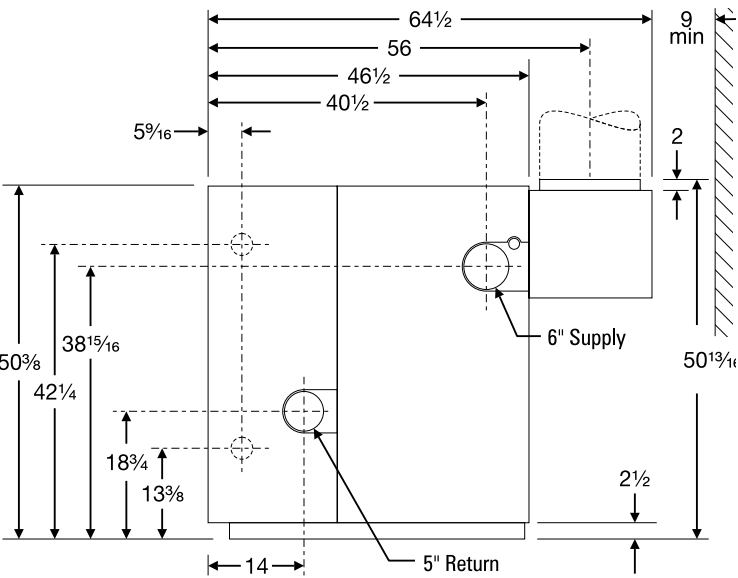


DIMENSIONS

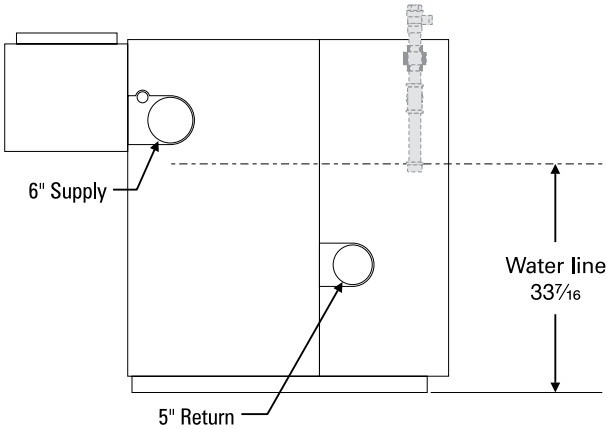


FRONT VIEW

RIGHT VIEW



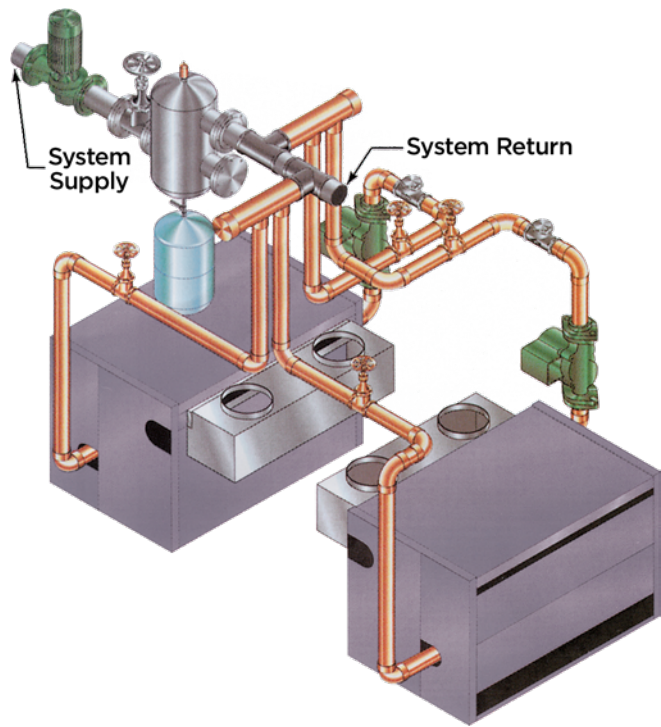
LEFT VIEW



Model	Dimensions				Draft Hood Outlet(s) Number & Size
	A	B	C	W	
LGB-4	18"	9"	—	21"	1-10"
LGB-5	23"	11 1/2"	—	26"	1-12"
LGB-6	28"	14"	—	31"	1-12"
LGB-7	33"	16 1/2"	—	36"	1-12"
LGB-8	38"	19"	—	41"	1-14"
LGB-9	43"	21 1/2"	—	46"	1-14"
LGB-10	48"	24"	—	51"	1-16"
LGB-11	53"	26 1/2"	—	56"	1-16"
LGB-12	58"	29"	—	61"	1-16"
LGB-13	63"	16 1/2"	30"	66"	2-12"
LGB-14	68"	19"	32 1/2"	71"	1-12" / 1-14"
LGB-15	73"	19"	35"	76"	2-14"
LGB-16	78"	21 1/2"	37 1/2"	81"	2-14"
LGB-17	83"	21 1/2"	40"	86"	2-14"
LGB-18	88"	24"	42"	91"	1-14" / 1-16"
LGB-19	93"	24"	45"	96"	2-16"
LGB-20	98"	26 1/2"	47 1/2"	101"	2-16"
LGB-21	103"	26 1/2"	60"	106"	2-16"
LGB-22	108"	29"	52 1/2"	111"	2-16"
LGB-23	113"	29"	55"	116"	2-16"

NOTES:
(1) For LGB 4-23-return tapping size is 5" (qty. 2) and supply tapping size is 6" (qty. 2).
(2) Gas trains on all IRI boilers and LGB 21-23 for CSD-1 & FM are located outside the boiler jacket. Allow additional clearances as required.

PIPING CONNECTIONS



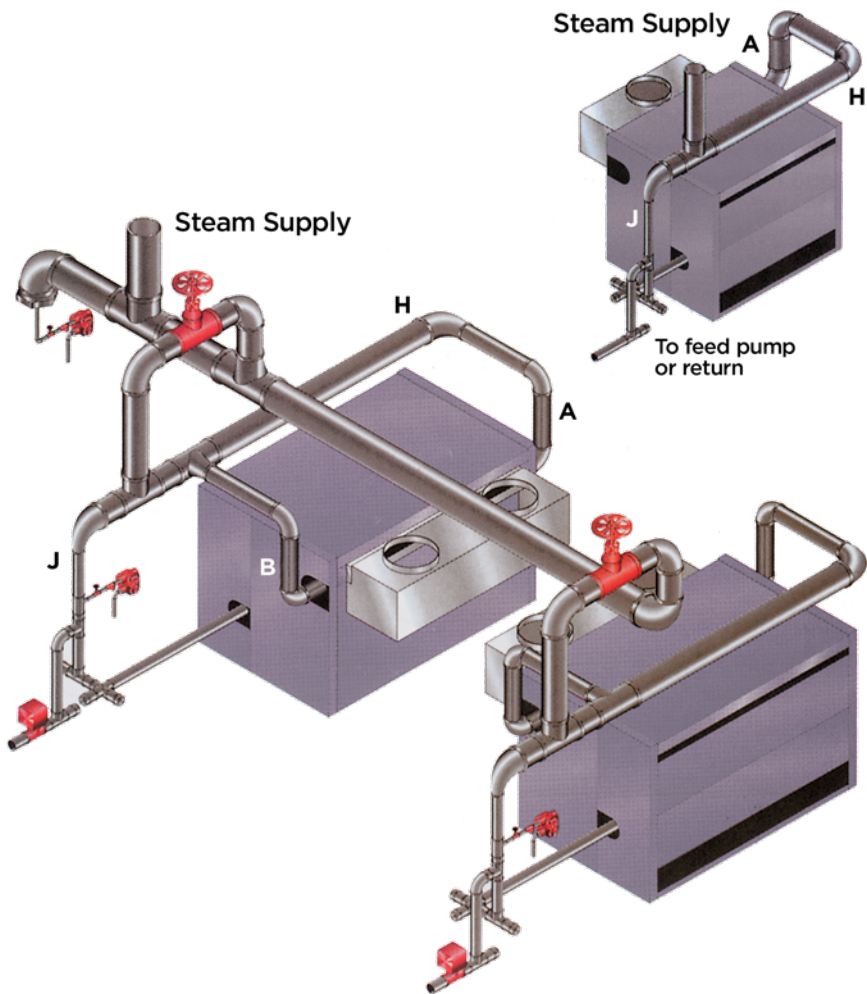
WATER BOILERS

PIPING NOTES:

Alternative Piping—for LGB-4 through 12 only:
If desired, all three piping connections (supply, return and expansion tank) can be taken off same end of boiler.

Supply and return sizes in table below for water boilers refer to minimum size of pipe connected to boiler for 20° or higher temperature drop between supply and return.

Recommended Minimum Pipe Sizes (20° Rise Through Boiler)	
Model	Pipe Size Supply and Return
LGB-4	2"
LGB-5	2 ½"
LGB-6 to 8	3"
LGB-9 to 16	4"
LGB-17 to 23	5"



STEAM BOILERS

Recommended Minimum Pipe Sizes For Single Risers			
Model	Riser A	Header H	Equalizer J
LGB-4 to 8	4"	4"	2"
LGB-9 to 11	5"	5"	2 ½"
LGB-12	6"	6"	2 ½"

Recommended Minimum Pipe Sizes For Dual Risers			
Model	Riser A B		Header H
LGB-13 to 15	4"	4"	6"
LGB-16 to 19	5"	5"	6"
LGB-20 to 23	6"	6"	8"

RATINGS

STEAM Model	Heating Medium	Input (MBH)	AHRI Certified Rating ¹		Boiler N.P.	Steam (Sq.Ft.)	Boiler Water Content Gallons		Approx. Shipping Weight (Lbs.)	Boiler Configuration		Chimney Breaching Size ² (I.D.)
			Gross Output (MBH)	Net Rating Steam (MBH)			Steam (to waterline)	Water (Gal.)		Assembled Block Weight (Lbs.)	Packaged Boiler Weight (Lbs.)	
LGB-4-S	Steam	400	312	234	9.7	975	23.2	36.5	1185	975	1600	10"
LGB-5-S	Steam	520	409	307	12.6	1279	28.9	45.6	1455	1200	1800	12"
LGB-6-S	Steam	650	514	386	15.7	1607	34.6	54.7	1725	1425	2000	12"
LGB-7-S	Steam	780	619	464	18.9	1936	40.3	63.9	2005	1650	2300	12"
LGB-8-S	Steam	910	724	543	22	2264	46	73	2290	1900	2500	14"
LGB-9-S	Steam	1040	829	622	25.2	2591	51.9	82.1	2560	2125	2800	14"
LGB-10-S	Steam	1170	934	701	28.3	2918	57.6	91.2	2800	2375	3100	16"
LGB-11-S	Steam	1300	1039	779	31.5	3246	63.4	100.4	3105	2600	3300	16"
LGB-12-S	Steam	1430	1144	858	34.6	3576	69.1	109.5	3365	2850	3500	16"
LGB-13-S	Steam	1560	1239	929	37.8	3868	74.9	118.6	3785	3100	4100	16"
LGB-14-S	Steam	1690	1344	1015	40.9	4228	80.7	127.7	4085	3330	4300	16"
LGB-15-S	Steam	1820	1449	1102	44	4592	86.4	136.9	4355	—	—	16"
LGB-16-S	Steam	1950	1552	1188	47.2	4950	92.2	146	4725	—	—	17"
LGB-17-S	Steam	2080	1658	1276	50.3	5316	98	155.1	4975	—	—	17"
LGB-18-S	Steam	2210	1764	1364	53.5	5682	103.6	164.2	5270	—	—	18"
LGB-19-S	Steam	2340	1867	1448	56.6	6034	109.5	173.4	5540	—	—	18"
LGB-20-S	Steam	2470	1974	1533	59.8	6384	115.3	182.5	5820	—	—	19"
LGB-21-S	Steam	2600	2077	1613	62.9	6720	121	191.6	6080	—	—	19"
LGB-22-S	Steam	2730	2184	1696	66.1	7065	126.8	201.2	6365	—	—	19"
LGB-23-S	Steam	2860	2288	1776	69.2	7402	132.5	209.8	6625	—	—	20"

WATER Model	Heating Medium	Input (MBH)	AHRI Certified Rating ¹		Boiler H.P.	Boiler Water Content (Gal.)	Approx. Shipping Weight (Lbs.)	Boiler Configuration		Chimney Breaching Size ² (I.D.)
			Gross Output (MBH)	Net Rating Water (MBH)				Assembled Block Weight (Lbs.)	Packaged Boiler Weight (Lbs.)	
LGB-4-W	Water	400	322	280	9.7	36.5	1185	975	1600	10"
LGB-5-W	Water	520	419	364	12.6	45.6	1455	1200	1800	12"
LGB-6-W	Water	650	523	455	15.7	54.7	1725	1425	2000	12"
LGB-7-W	Water	780	628	546	18.9	63.9	2005	1650	2300	12"
LGB-8-W	Water	910	737	641	22	73	2290	1900	2500	14"
LGB-9-W	Water	1040	843	733	25.2	82.1	2560	2125	2800	14"
LGB-10-W	Water	1170	950	826	28.3	91.2	2800	2375	3100	16"
LGB-11-W	Water	1300	1057	919	31.5	100.4	3105	2600	3300	16"
LGB-12-W	Water	1430	1165	1013	34.6	109.5	3365	2850	3500	16"
LGB-13-W	Water	1560	1273	1107	37.8	118.6	3785	3100	4100	16"
LGB-14-W	Water	1690	1381	1201	40.9	127.7	4085	3330	4300	16"
LGB-15-W	Water	1820	1489	1295	44	136.9	4355	—	—	16"
LGB-16-W	Water	1950	1597	1389	47.2	146	4725	—	—	17"
LGB-17-W	Water	2080	1708	1485	50.3	155.1	4975	—	—	17"
LGB-18-W	Water	2210	1817	1580	53.5	164.2	5270	—	—	18"
LGB-19-W	Water	2340	1926	1675	56.6	173.4	5540	—	—	18"
LGB-20-W	Water	2470	2035	1770	59.8	182.5	5820	—	—	19"
LGB-21-W	Water	2600	2207	1919	62.9	191.6	6080	—	—	19"
LGB-22-W	Water	2730	2318	2016	66.1	201.2	6365	—	—	19"
LGB-23-W	Water	2860	2428	2111	69.2	209.8	6625	—	—	20"

¹ Net AHRI ratings are based on net installed radiation of sufficient quantity for building requirements. Do not add on for normal piping and pickup. Water boilers are rated at 80 psig maximum working pressure. Water ratings are based on piping and pickup allowance of 1.15. Additional allowance should be made for gravity hot water systems or unusual piping and pickup loads. Ratings shown are for elevations up to 2,000 feet. For ratings above 2,000 feet, reduce at rate of 4 percent per 1000 feet above sea level.

² Refer to boiler manual for chimney applications detail.



Questions? Contact Weil-McLain
Support Services at 800-654-2109
or visit www.weil-mclain.com

