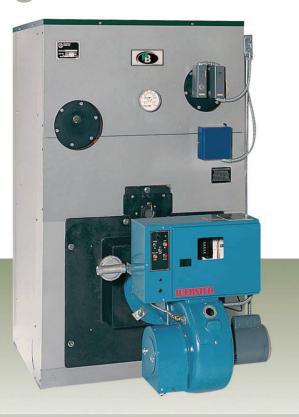
Series LC™& Series LCE™



PeerlessBoilers.com

Large Commercial Boilers



Standard Equipment

- > Manual Reset High Limit Control
- > Honeywell Operating Control
- > LWCO on Packaged Boilers
- Safety Relief Valve (30 psi Water; 15 psi – Steam)
- Combination Temperature-Pressure Gauge (Water)
- > Operating Pressuretrol (Steam)
- > Gauge Glass with Fittings (Steam)

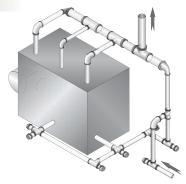
Series LC™ & Series LCE™ Boiler Features

- Oil, Gas or Combination Gas/Oil-Fired Boilers for Hot Water or Steam Systems
- 22 sizes, 4-24 sections; Available as Knockdown, Factory Assembled Sections or Factory Packaged
- Up to 84.2% Combustion Efficiency—Boiler Efficiencies Compliant with Federal and ASHRAE 90.1 Requirements
- Forced Draft Venting—Requires Only a Three Foot Vent Above the Roof
- Advanced Boiler Design that Includes Integral Cast Iron Flue Collector, Unique Flex-Seal Gaskets and Individual Draw Rods
- Cast Iron Rear Outlet with Integral Damper (4-12 section models)—can be Adjusted and Locked in Position
- Cast Iron Top Outlet with Butterfly Flue Damper (13-24 section models)—can be Mounted Horizontally or Vertically
- Optional LoNOx, SCAQMD Certified (LC-04 LC-10 Models)
- Optional Tankless Domestic Hot Water Coils Available for all Models

All commercial cast iron boilers include a full one-year warranty. A limited, ten-year warranty is provided for the cast iron sections of commercial hot water and steam boilers. Visit PeerlessBoilers.com for complete details.

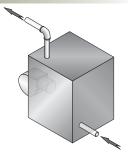
Steam Piping

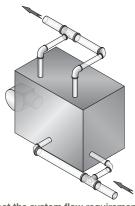




Pipe the return line to a Hartford Loop, with the return nipple located from 2 to 4 inches below the normal water line.

Water Piping





Size the supply and return headers to meet the system flow requirement.

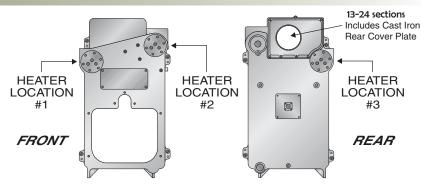
Dailan	Din	(Water)
Boller	Pibina	(water)

Doller Fil	mig (m	aterj			
Boiler Model Number	Supply	Return	Minimum Header Size		
LC-04, 05R, 05	1-2-1/2"	1-2-1/2"	2-1/2"		
LC-06 and LC-07	1–3"	1–3"	3"		
LC-08 and LC-09	2–3"	2–3"	3"		
LC-10 thru LC-12	2–4"	2–3"	4"		

Boiler Piping (Steam)

			_
Boiler Model Number	Risers	Minimum Header Size	Equalizer
LC-04	1-4"	4"	2"
LC-05R	2-3"	5"	2"
LC-05	2-3"	5"	2"
LC-06	2-4"	5"	2"
LC-07	2-4"	5"	2-1/2"
LC-08	2-4"	6"	2-1/2"
LC-09	2-4"	6"	2-1/2"
LC-10	2-4"	6"	2-1/2"
LC-11	2-4", 1-3"	6"	3"
LC-12	2-4", 1-3"	6"	3"
LCE-13	2-4", 1-3"	6"	3"
LCE-14	2-4", 2-3"	8"	3"
LCE-15	2-4", 2-3"	8"	3"
LCE-16	2-4", 2-3"	8"	3"
LCE-17	2-4", 3-3"	8"	4"
LCE-18	2-4", 3-3"	8"	4"
LCE-19	2-4", 3-3"	8"	4"
LCE-20	2-4", 3-3"	8"	4"
LCE-21	2-4", 4-3"	8"	4"
LCE-22	2-4", 4-3"	8"	4"
LCE-23	2-4", 4-3"	8"	4"
LCE-24	2-4", 4-3"	8"	4"

Tankless Domestic Hot Water Heater Locations



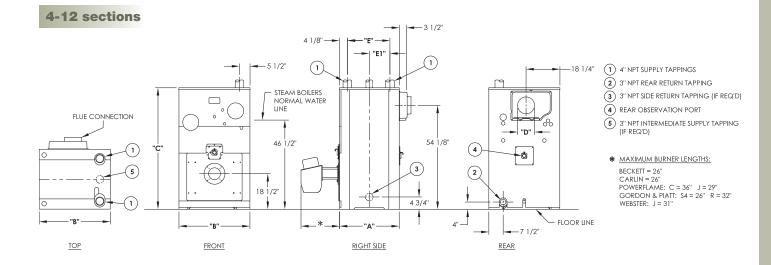
Tankless Domestic Hot Water Heater Ratings*

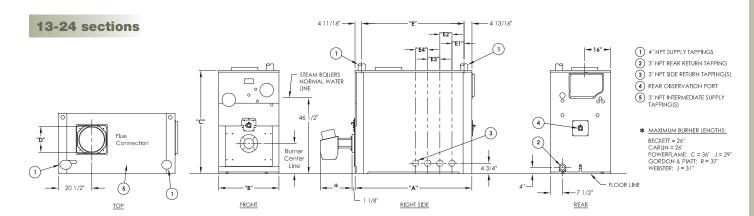
	Н	leater No X-1020	D.	Н	leater No X-1022	0.	Two Heater No. X-1020			Two Heater No. X-1022			
Boiler		Loca	Location**		Location**			Location**			Location**		
Model Number	GPM	Steam	Water	GPM	Steam	Water	GPM	Steam	Water	GPM	Steam	Water	
LC-04	5.5	1	2	_	_	_	8.0	_	1 & 2	_	_	_	
LC-05R	5.62 1		2	_	_	_	9.0	_	1 & 2	_	_	_	
LC-05	5.75	1	2	_	_	_	10.0	_	1 & 2	_	-	_	
LC-06	6.25	1	2	_	_	_	12.0	-	1 & 2	_	-	_	
LC-07	6.5	1	2	13.0	1	2	13.0	-	1 & 2	15.5	–	1 & 2	
LC-08	7.0	1	2	13.75	1	2	14.0	-	1 & 2	18.0	–	1 & 2	
LC-09	LC-09 7.25 1 2 LC-10 7.5 1 2 LC-11 8.0 1 2 LC-12 — — —		14.5	1	2	14.5	1 & 3	1 & 2	20.0	–	1 & 2		
LC-10			15.5	1	2	15.0	1 & 3	1 & 2	22.5	–	1 & 2		
LC-11			16.5	1	2	16.0	1 & 3	1 & 2	24.5	–	1 & 2		
LC-12			17.5	1	2		_	_	27.0	_	1 & 2		
LCE-13	_	_ _ _ 18.		18.0	1	I –		I –	_	29.0	I —		
LCE-14	_	_	_	18.75	1	_	_	_	_	31.5	_	_	
LCE-15	_	_	_	19.5	1	_	_	_	_	33.5	1 & 3	_	
LCE-16	_	-	_	20.0	1	_	_	-	_	35.5	1 & 3	_	
LCE-17	_	_	_	20.0	1	_	_	-	_	37.5	1 & 3	_	
LCE-18	_	-	_	20.0	1	_	_	-	_	39.5	1 & 3	_	
LCE-19	_	_	_	20.0	1	_	_	-	_	40.0	1 & 3	_	
LCE-20	_	-	_	20.0	1	-	l –	-	_	40.0	1 & 3	-	
LCE-21	_	–	_	20.0	1	–	—	-	_	40.0	1 & 3	-	
LCE-22	_	-	_	20.0	1	-	l –	-	_	40.0	1 & 3	-	
LCE-23	_	_	_	20.0	1	_	_	-	_	40.0	1 & 3	_	
LCE-24	_	-	_	20.0	1	_	_	-	_	40.0	1 & 3	_	

^{*} Water heater ratings are based on intermittent demand—40° F to 140° F Rise with 200° F boiler water.

** Water heater locations may be found on the drawing above.

When two (2) tankless water heaters are used in a steam boiler, a special rear section is furnished at no extra charge—when ordered with boiler. Caution: Water mixing valve should always be installed in the hot water supply to prevent injury.





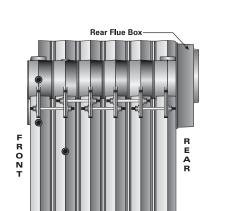
Boiler Dimensions and Tapping Locations												
					Distance Between Tappings*							
Boiler	Jacket	Jacket	Jacket	Flue Size "D"		Water		Steam				
Model Number	Depth "A"	Width "B"	Height "C"		"E"	"E1"	"E1"	"E2"	"E3"	"E4"		
LC-04	25-15/16"	37"	63"	9"	16-1/2"	_	_	_	_	_		
LC-05R	31"	37"	63"	9"	21-9/16"	_	_	_	_	_		
LC-05	31"	37"	63"	9"	21-9/16"	_	_	_	_	_		
LC-06	36-1/16"	37"	63"	10"	26-5/8"	_	_	_	_			
LC-07	41-1/8"	37"	63"	10"	31-11/16"	_	_	_	_	_		
LC-08	46-5/16"	37"	63"	10"	36-13/16"	15-13/16"	_	_	_	_		
LC-09	51-3/8"	37"	63"	12"	41-7/8"	20-15/16"	_	_	_	_		
LC-10	56-7/16"	37"	63"	12"	46-15/16"	20-15/16"	_	_	_	_		
LC-11	61-1/2"	37"	63"	12"	52"	26"	26"	_	_	_		
LC-12	66-9/16"	37"	63"	12"	57-1/8"	26"	26"	_	_	_		
LCE-13	71-3/4"	37"	63"	14"	62-3/16"	_	36-3/16"	_	_	_		
LCE-14	76-13/16"	37"	63"	14"	67-1/4"	_	20-5/16"	20-5/16"	_	_		
LCE-15	81-7/8"	37"	63"	14"	72-5/16"	_	26"	20-5/16"	_	_		
LCE-16	86-15/16"	37"	63"	14"	77-7/16"	_	26"	25-7/16"	_	_		
LCE-17	92-1/8"	37"	63"	14"	82-1/2"	_	20-5/16"	20-5/16"	15-1/4"	_		
LCE-18	97-3/16"	37"	63"	16"	87-9/16"	_	20-5/16"	20-5/16"	20-5/16"	_		
LCE-19	102-1/4"	37"	63"	16"	92-5/8"	_	20-5/16"	20-5/16"	25-7/16"	_		
LCE-20	107-7/16"	37"	63"	16"	97-3/4"	_	20-5/16"	20-5/16"	15-1/4"	15-1/4"		
LCE-21	112-1/2"	37"	63"	16"	102-13/16"	_	20-5/16"	20-5/16"	20-5/16"	15-1/4"		
LCE-22	117-9/16"	37"	63"	16"	107-7/8"	_	20-5/16"	20-5/16"	20-5/16"	20-5/16"		
LCE-23	122-5/8"	37"	63"	16"	112-15/16"	_	26"	20-5/16"	20-5/16"	20-5/16"		
LCE-24	127-11/16"	37"	63"	16"	118-1/16"	_	26"	20-5/16"	20-5/16"	25-7/16"		

Apply Prefix "O" for oil—"G" for gas—"GO" for gas-oil.

The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping, etc. For forced hot water heating systems where the boiler and all the piping are within the area to be heated, the boiler may be selected on the basis of its Gross Output.

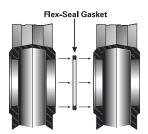
^{*} Dimensions are approximate.

Technical Information



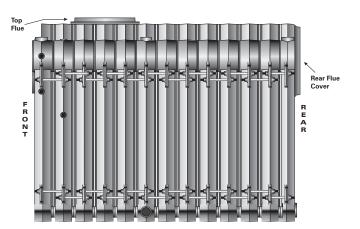


Individual Draw Rods





Flex-Seal Gaskets



Cast Iron Block Assembly-Top Flue Outlet



Butterfly Flue Damper (13-24 sections) Mounted Horizontally or Vertically

Boiler Ratings

Series LC™ & Series LCE™ ALEX CERTIFIED® WARMINGENERING FOR														
				Net Ratings⁴			Oil		Gas				ater	
Boiler Model Number	Oil Ir	nput¹ MBH	Gas Input, MBH	Gross Output, MBH	Steam, sqft	Water²,	Steam³, MBH	Combustion Efficiency ⁵ ,	Thermal Efficiency ⁵ , %	Combustion Efficiency ⁵ , %	Thermal Efficiency ⁵ , %	Boiler H.P.	ı	tent, al Steam
LC-04-S	4.75	665	686	547	1,708	_	410	83.7	82.2	81.2	79.8	16.3	_	40.57
LC-04-W	4.75	665	686	547	_	476	_	84.2	82.9	81.6	80.4	16.3	50.65	_ !
LC-05R	5.60	784	808	649	2,029	564	487	83.7	82.8	81.2	80.3	19.4	59.05	47.29
LC-05	6.10	854	881	707	2,208	615	530	83.7	82.8	81.2	80.3	21.1	59.05	47.29
LC-06	7.50	1,050	1,077	868	2,713	755	651	83.7	83.1	81.1	80.6	25.9	67.45	54.01
LC-07	8.80	1,232	1,273	1,029	3,217	895	772	83.6	83.3	81.1	80.8	30.7	75.85	60.73
LC-08	10.20	1,428	1,469	1,189	3,717	1,034	892	83.6	83.5	81.1	81	35.5	84.25	67.45
LC-09	11.60	1,624	1,664	1,350	4,250	1,174	1,020	83.6	83.6	81.1	81.1	40.3	91.65	74.17
LC-10	12.80	1,792	1,860	1,511	4,804	1,314	1,153	83.6	83.7	81.1	81.2	45.1	101.05	80.89
LC-11	14.20	1,988	2,056	1,672	5,367	1,454	1,288	83.6	83.8	81.1	81.3	49.9	109.45	87.61
LC-12	15.60	2,184	2,252	1,832	5,917	1,593	1,420	83.6	83.9	81.1	81.4	54.7	117.85	94.33
LCE-13	17.00	2,380	2,464	1,966	6,358	N/A	1,526	83.5	82.2	81	79.8	58.7		101.05
LCE-14	18.40	2,576	2,657	2,125	6,875	N/A	1,650	83.5	82.5	81	80	63.5	_	107.77
LCE-15	19.80	2,772	2,850	2,284	7,388	N/A	1,773	83.5	82.6	81	80.2	68.2	–	114.49
LCE-16	21.00	2,940	3,043	2,444	7,908	N/A	1,898	83.5	82.8	81	80.3	73		121.21
LCE-17	22.50	3,150	3,236	2,603	8,421	N/A	2,021	83.5	82.9	81	80.4	77.8	_	127.93
LCE-18	24.00	3,360	3,429	2,763	8,938	N/A	2,145	83.5	83.1	81	80.6	82.5	–	134.65
LCE-19	25.00	3,500	3,622	2,922	9,454	N/A	2,269	83.5	83.2	81	80.7	87.3		141.37
LCE-20	26.50	3,710	3,815	3,082	9,971	N/A	2,393	83.5	83.3	81	80.8	92.1	_	148.09
LCE-21	28.00	3,920	4,027	3,256	10,533	N/A	2,528	83.6	83.3	81.1	80.8	97.3	–	154.81
LCE-22	29.50	4,130	4,239	3,430	11,096	N/A	2,663	83.6	83.4	81.1	80.9	102.5	_	161.53
LCE-23	31.00	4,340	4,451	3,604	11,658	N/A	2,798	83.7	83.5	81.2	81	107.7	_	168.25
LCE-24	32.50	4,550	4,663	3,777	12,217	N/A	2,932	83.7	83.5	81.2	81	112.8	_	174.97

- Burner input based on No. 2 fuel oil with a heating value of 140,000 Btu per gallon.
- 2 Net water ratings based on allowance of 1.15.
 3 Net steam ratings based on an allowance for LC-04 to LC-08=1.333, LC-09=1.323, LC-10=1.310, LC-11=1.298, LC-12=1.290, LCE-13 to LCE-24=1.288.
- 4 Consult factory before selecting a boiler for installation having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

 5 Combustion and thermal efficiencies are determined in accordance with BTS 2000 Testing Standard.





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