

Richardson & Boynton Co.

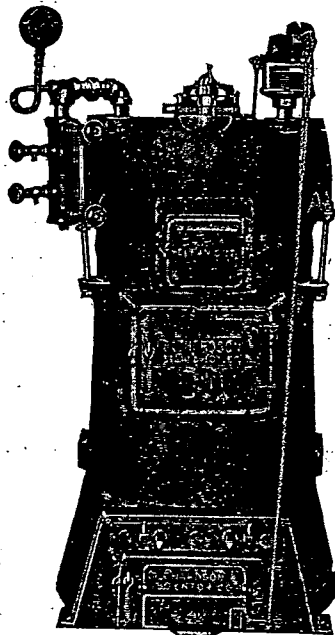
Manufacturers of
"RICHARDSON" "PERFECT"
Heating and Cooking Apparatus Since 1837

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RICHARDSON ROUND BOILERS Ratings and Dimensions

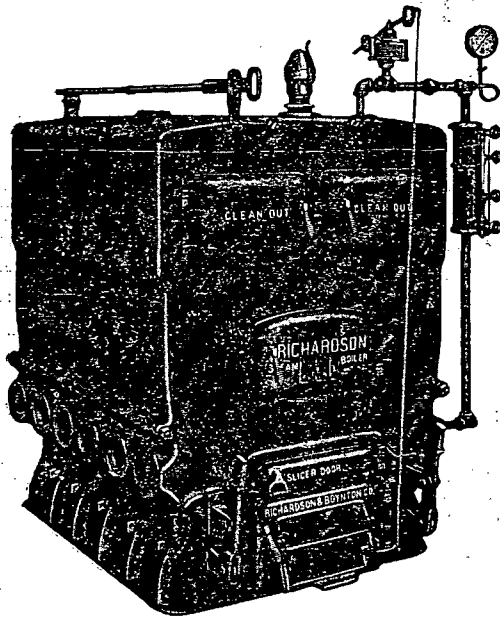
Boiler No.	8-Hour Rating Sq. Ft. Steam	8-Hour Rating Sq. Ft. Water	Nom. Diam. In.	Grate Area Sq. Ft.	Height to Top Outlet, In.		Height Water Line In.	Outlets and Inlets No. and Size	Direct Rad. Boiler will Supply Sq. Ft.
					Steam	Water			
1190	300	500	19	1.97	47 1/2	45 1/4	42 1/2	2-2 1/2	200
1191	350	575	19	1.97	51 1/2	49 1/4	46 1/2	2-2 1/2	235
1192	375	625	19	1.97	55 1/2	53 1/4	50 1/2	2-2 1/2	250
1221	450	750	22	2.64	53	50 1/2	48 1/4	2-2 1/2	300
1222	500	825	22	2.64	57	54 1/2	52 1/4	2-2 1/2	335
1223	550	900	22	2.64	61	58 1/2	56 1/4	2-2 1/2	375
1251	625	1025	25	3.41	54 1/2	52	49 1/2	2-3	410
1252	675	1100	25	3.41	58 1/4	56	53 1/2	2-3	450
1253	725	1200	25	3.41	62 1/4	60	57 1/4	2-3	480
1281	875	1350	28	4.28	55 3/4	53 1/4	51	2-3 1/2	600
1282	950	1550	28	4.28	59 3/4	57 1/4	55	2-3 1/2	650
1283	1025	1675	28	4.28	63 3/4	61 1/4	59	2-3 1/2	700



Richardson Round Boiler

RICHARDSON SECTIONAL BOILER Ratings and Dimensions

Boiler Number	8-Hr. Rating Sq. Ft. Steam	8-Hr. Rating Sq. Ft. Water	Grate Area Sq. Ft.	Height to Top Outlet, In.	Height Water Line, In.	Aspirator, Inside, In.	No. Outlets and Size, In.
255C	1000	1600	4.57	55	48 1/4	27 1/2 x 35 1/2	2-3 1/2
256C	1250	2000	5.70	55	48 1/4	27 1/2 x 42 1/2	2-3 1/2
257C	1500	2400	6.83	55	48 1/4	27 1/2 x 50	2-3 1/2
258C	1700	2800	7.97	55	48 1/4	27 1/2 x 57 1/2	2-3 1/2
355C	1950	3125	7.85	63	56	39 x 33 1/2	2-4
356C	2400	3850	9.81	63	56	39 x 41 1/2	2-4
357C	2850	4575	11.75	63	56	39 x 50	2-4
358C	3300	5300	13.70	63	56	39 x 58 1/2	2-4
359C	3750	6025	15.65	63	56	39 x 66 1/2	2-4
427C	3500	5600	13.12	66	60	45 x 50	2-5
428C	4050	6500	16.11	66	60	45 x 58 1/2	2-5
429C	4600	7400	18.40	66	60	45 x 66 1/2	2-5
4210C	5150	8300	20.69	66	60	45 x 74 1/2	2-5
4211C	5700	9200	22.98	66	60	45 x 83	2-5
536	6300	10000	18.94	82	70 1/2	55 x 55	2-6
537	7300	11600	22.68	82	70 1/2	55 x 63 1/2	2-6
538	8300	13200	26.40	82	70 1/2	55 x 76 1/2	2-6
539	9300	14800	30.12	82	70 1/2	55 x 87 1/2	2-6
5310	10300	16400	33.88	82	70 1/2	55 x 98	2-6



Richardson End Feed Sectional Steam Boiler

SMOKELESS ROUND BOILERS Ratings and Dimensions Steam

Number	Height to Top of Outlet, In.	Nominal Diam. of Grate, In.	Grate Area, Sq. Ft.	Size Smoke-Pipe, In.	Height of Waterline, In.	Number and Size of Outlets, In.	Number and Size of Inlets, In.	Direct Radiation Boiler will supply at 8-hour firing period	Rating
S-432	53 1/4	23	2.89	9	48 1/4	2-3	2-3	320 sq. ft.	700
S-532	57 1/4	23	2.89	9	52 1/2	2-3	2-3	350 " "	750
S-632	62	23	2.89	9	56 3/4	2-3	2-3	380 " "	800
S-462	55 1/2	26	3.70	10	49 1/2	2-3 1/2	2-3 1/2	450 " "	900
S-562	59 1/2	26	3.70	10	53 1/2	2-3 1/2	2-3 1/2	500 " "	1000
S-662	64	26	3.70	10	58	2-3 1/2	2-3 1/2	550 " "	1100
S-492	60	29	4.58	10	53 1/2	2-3 1/2	2-3 1/2	630 " "	1250
S-592	65 1/2	29	4.58	10	58 1/2	2-3 1/2	2-3 1/2	700 " "	1350
S-692	70 1/4	29	4.58	10	64 1/2	2-3 1/2	2-3 1/2	770 " "	1450

Water

Number	Height to Top of Outlet, In.	Nominal Diam. of Grate, In.	Grate Area, Sq. Ft.	Size Smoke-Pipe, In.	Height of Waterline, In.	Number and Size of Outlets, In.	Number and Size of Inlets, In.	Direct Radiation Boiler will supply at 8-hour firing period	Rating
W-432	45 1/4	23	2.89	9	48 1/4	2-3	2-3	520 sq. ft.	1150
W-532	50	23	2.89	9	52 1/2	2-3	2-3	570 " "	1225
W-632	54 1/4	23	2.89	9	56 3/4	2-3	2-3	620 " "	1300
W-462	47 1/2	26	3.70	10	49 1/2	2-3 1/2	2-3 1/2	725 " "	1500
W-562	51 1/2	26	3.70	10	53 1/2	2-3 1/2	2-3 1/2	800 " "	1650
W-662	55 1/2	26	3.70	10	58	2-3 1/2	2-3 1/2	875 " "	1800
W-492	50 1/2	29	4.58	10	53 1/2	2-3 1/2	2-3 1/2	1025 " "	2050
W-592	55 1/2	29	4.58	10	58 1/2	2-3 1/2	2-3 1/2	1125 " "	2225
W-692	61 1/4	29	4.58	10	64 1/2	2-3 1/2	2-3 1/2	1225 " "	2400

*Direct radiation boiler will supply, is based on the use of cast-iron radiation in a 70° F. temperature and with the assumption that the Boiler and Piping system is thoroughly covered in the usual manner. For churches, garages, schools, or where pipe coils, wall or indirect radiation is used, the tax on the boiler must be figured on a basis equivalent to cast-iron radiation as above. When coils or indirect water heaters are used in connection with steam and water boilers, for heating water for domestic purposes, additional capacity must be figured at the rate of 1 1/2 square feet of direct radiation for a steam boiler; and 2 1/2 square feet of direct radiation for a hot water boiler, for each gallon of water to be heated per hour.

Height of chimney for 23" series, 35 feet; 26" series, 40 feet; 29" series, 50 feet.
Inside area of chimney flue, 23" series, 96 sq. in.; 26" series, 96 sq. in.; 29" series, 144 sq. in.

RICHARDSON HOT-BLAST SMOKELESS BOILERS End Feed Sectional Steam and Water

Special features of the "Richardson" Hot Blast Smokeless Boilers "C" Series.

They are made in sectional form and can be erected at any time, whether the building is new or old. This enables the boiler to be installed with a minimum handling expense.

The natural fire travel and draft eliminate excessive heights in chimneys.

Long smoke travel and no obstruction to the flames, aid combustion to the perfection point and utilize maximum heat from the fuel.

"Y" Flue Construction equalizes the circulation and assures a steady water line.

Overhanging prime heating surfaces are at the maximum, producing the highest evaporative power.

During the process of the fuel coking, gases are drawn back into a large chamber in front of the bridgeway, which has two port holes at the top center, making it impossible for gases to accumulate and explode.

The base is made in sections, permitting enlargement of a boiler if ever necessary.

Fire door: Replacing of grates through fire door big enough for man to enter (15x20 inches) means important saving in time. The size of this door permits even distribution of fuel over the fire.

Made in sizes 1850-16,150 sq. ft. for steam
Made in sizes 3000-26,600 sq. ft. for water

