

Boilers

Richardson & Boynton

260 Fifth Avenue
New York City

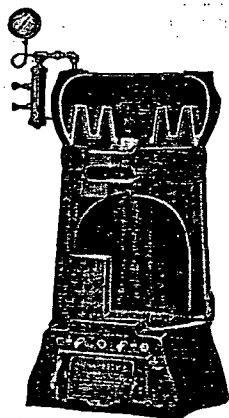
BRANCHES

Boston
60 High Street
Providence
429 Industrial Trust Building

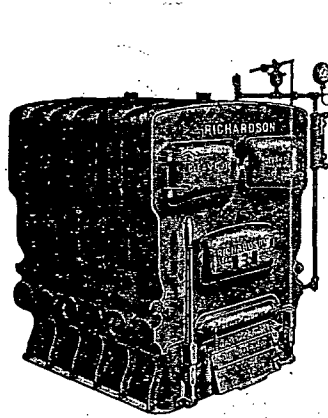
Chicago
171-173 West Lake Street

Philadelphia
1332 Arch Street
Rochester
Rockwood Street

Richardson Round Boiler



Richardson Sectional Boiler



List Prices and Data

Round										Sectional									
Boiler Number	8 Hr. Rating Sq. Ft. Steam	8 Hr. Rating Sq. Ft. Water	Nom. Diam.	Grate, Inches	Sq. Ft.	No. Inlets and Outlets and Size, inches	List Price Complete, Steam	List Price Complete, Water		Boiler Number	8 Hr. Rating Sq. Ft. Steam	8 Hr. Rating Sq. Ft. Water	Grate Area, Sq. Ft.	Ashpit, Inside, Inches	No. Outlets and Size, inches	List Price Complete, Steam	List Price Complete, Water		
161	250	400	16	1.40	2-2		118.00	103.00		255	1000	1600	4.57	27 1/2	x35 1/4	2-3 1/2	361.00	328.00	
162	275	425	16	1.40	2-2		135.00	113.00		256	1250	2000	5.70	27 1/2	x42 1/4	2-3 1/2	430.00	397.00	
190	300	500	19	1.97	2-2 1/2		142.00	116.00		257	1500	2400	6.83	27 1/2	x50	2-3 1/2	490.00	457.00	
191	350	575	19	1.97	2-2 1/2		158.00	133.00		258	1700	2800	7.97	27 1/2	x57 1/4	2-3 1/2	547.00	514.00	
192	375	625	19	1.97	2-2 1/2		175.00	146.00		355	1950	3125	7.85	39	x33 1/4	2-4	590.00	548.00	
221	450	750	22	2.64	2-2 1/2		194.00	160.00		356	2400	3850	9.81	39	x41 1/4	2-4	700.00	658.00	
222	500	825	22	2.64	2-2 1/2		207.00	177.00		357	2850	4575	11.75	39	x50	3-4	810.00	768.00	
223	550	900	22	2.64	2-2 1/2		220.00	192.00		358	3300	5300	13.70	39	x58 1/4	3-4	900.00	850.00	
251	625	1025	25	3.41	2-3		242.00	202.00		359	3750	6025	15.65	39	x66 1/4	3-4	990.00	940.00	
252	675	1100	25	3.41	2-3		258.00	215.00		427	3500	5600	13.82	45	x50	2-5	942.00	892.00	
253	725	1200	25	3.41	2-3		283.00	242.00		428	4050	6500	16.11	45	x58 1/4	2-5	1,035.00	985.00	
281	875	1350	28	4.28	2-3 1/2		295.00	250.00		429	4600	7400	18.40	45	x66 1/4	2-5	1,150.00	1,085.00	
282	950	1550	28	4.28	2-3 1/2		322.00	273.00		428	5150	8300	20.69	45	x74 1/4	3-5	1,245.00	1,180.00	
283	1025	1675	28	4.28	2-3 1/2		355.00	308.00		4211	5700	9200	22.98	45	x83	3-5	1,345.00	1,275.00	
										536	6300	10000	18.94	55	x55	2-6	1,553.00	1,495.00	
										537	7300	11600	22.68	55	x63 1/4	2-6	1,748.00	1,685.00	
										538	8300	13200	26.40	55	x76 1/4	3-6	1,950.00	1,870.00	
										539	9300	14800	30.12	55	x87 1/4	3-6	2,143.00	2,060.00	
										5310	10300	16400	33.88	55	x98	3-6	2,354.00	2,250.00	

Boilers

Standard Heater Company

Williamsport, Pa.

NEW YORK PHILADELPHIA BOSTON BALTIMORE BUFFALO
DETROIT CHICAGO DENVER DULUTH

Builders of Spencer Heaters



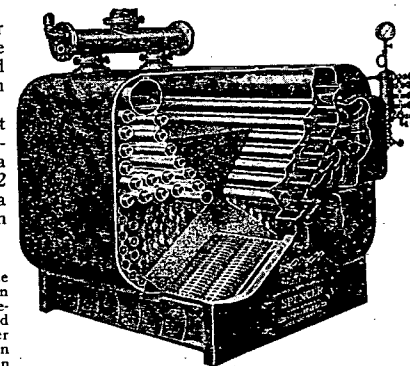
Spencer Heaters

Give uniform heat over long periods and use small size cheap hard coal with least attention to the fire.

The Magazine-feed feature is built into the heater and requires no adjustment. The Magazine holds a supply of coal sufficient for 8 to 12 hours in severe weather or for a proportionately longer period in milder weather.

Economical and efficient.

Due to the Magazine-feed feature of the Spencer Heater it is impracticable to obtain a firing period of less than 8 hrs. Therefore ratings of Spencer Heaters are based upon an evaporation of 8 lbs. of water per pound of coal burned, the rated evaporation having been obtained in actual test made in accordance with the A. S. H. & V. E. code for testing low pressure boilers, using fresh-mined No. 1 Buckwheat coal as fuel.



Tubular-Spencer Steam Heater

Spencer Sectional Steam and Water Heaters

Number	Steam Rating	Sq. Ft. Grate	Tapping Flow	Tapping Return	Length Over All Inches	Width In.	Water Line	Number	Water Rating	Chimney Flue
15-4S	375	2.29	1-4"	2-3"	33"	33 1/2"	49"	15-4W	600	8x 8x30
15-5S	500	3.02	1-4"	2-3"	39 1/2"	33 1/2"	49"	15-5W	800	8x 8x30
15-6S	625	3.78	1-4"	2-3"	47"	33 1/2"	49"	15-6W	1000	10x10x35
15-7S	750	4.54	2-4"	4-3"	54"	33 1/2"	49"	15-7W	1200	10x10x35
15-8S	900	5.30	2-4"	4-3"	62"	33 1/2"	49"	15-8W	1400	10x10x40
27-4S	1000	4.38	3-4"	3-4"	41 1/2"	55 1/2"	53"	27-4W	1600	10x10x35
27-5S	1300	5.84	3-4"	3-4"	49 1/2"	55 1/2"	53"	27-5W	2100	10x10x40
27-6S	1600	7.31	3-4"	3-4"	58"	55 1/2"	53"	27-6W	2600	12x12x35
27-7S	1900	8.78	3-4"	3-4"	66"	55 1/2"	53"	27-7W	3100	12x12x40
27-8S	2200	10.29	3-4"	3-4"	74"	55 1/2"	53"	27-8W	3600	12x12x40
30-6S	1800	8.60	2-5"	2-5"	56"	64"	54"	30-6W	2750	12x12x35
30-7S	2100	10.32	2-5"	2-5"	64"	64"	54"	30-7W	3300	12x12x35
30-8S	2400	12.04	2-5"	2-5"	73"	64"	54"	30-8W	3850	12x12x40
30-9S	2800	13.76	2-5"	2-5"	81"	64"	54"	30-9W	4400	12x12x40

Spencer Tubular Steam Heaters

Number	Steam Rating	Sq. Ft. Grate	Tapping Flow	Tapping Return	Length Over All Inches	Width In.	Water Line	Number	Water Rating	Chimney Flue
9	1100	7.00	2-4"	2-3"	57"	51"	51"			12x12x40
11	1400	8.16	2-4"	2-3"	63"	51"	51"			12x12x40
13	1700	9.33	2-4"	2-3"	70"	51"	53"			12x12x45
15	2000	9.50	2-4"	2-3"	71"	60"	56"			16x16x50
17	2500	10.68	2-4"	2-3"	77"	60"	56"			16x16x55
19	3000	11.87	2-4"	2-3"	83"	60"	56"			16x16x60
20	3500	13.06	2-4"	2-3"	89"	60"	56"			16x16x65
21	4000	14.25	2-4"	2-3"	95"	60"	56"			16x16x65
*3-45	4500	12.5	2-5"	1-4"	101 1/2"	81"	59"			18x18x50
*3-50	5000	14.0	2-5"	1-4"	107 1/2"	81"	59"			18x18x60
*3-55	5500	15.6	2-5"	1-4"	114"	81"	59"			18x18x60
*3-60	6000	17.2	2-5"	1-4"	120 1/2"	81"	59"			18x18x65
*3-70	7000	18.75	2-5"	1-4"	126 1/2"	81"	59"			20x20x65
*3-80	8000	21.9	1-8"	1-4"	95 1/4"	108"	66"			20x20x65
*3-90	9000	25.0	1-8"	1-4"	101 1/4"	108"	66"			22x22x65
*3-105	10500	28.1	1-8"	1-4"	107 1/4"	108"	66"			24x24x70
*3-120	12000	31.25	1-8"	1-4"	114"	108"	66"			24x24x70
*3-140	14000	34.4	1-8"	1-4"	120 1/2"	108"	66"			24x24x70

* Heaters No. 3-45 to 3-140 are furnished with jackets and covering, also pipe header and smoke pipe ell.