

National Bonded Super-Smokeless Boiler

Distinguished for its swirling scarlet flame, this boiler is scientifically designed for the efficient and smokeless combustion of all grades of fuel. The green coal cokes on the front of the grate—the distilled gases pass back to unite with pre-heated, proportioned, finely divided, and fully distributed secondary air, and are completely consumed.

Steam Boiler No.	Steam		Water		Grate Area Sq. Ft.	Length Sections Only In.	Length Sections and Smoke Box In.	Number Outlets, Sizes In.	Chimney		Boiler Covering Sq. Ft. Surface	
	Available Output Rating Sq. Ft.	Bonded Direct C. I. Radiation Sq. Ft.	Water Boiler No.	Available Output Rating Sq. Ft.					Area In.	Height Ft.		
24 Series—Height of Water Line, 45½". Height Flow Outlet, 54". Width of Section, 35½". Size Smoke Pipe, 14".												
S-245	1,600	700	W-245	2,600	1,155	5.00	37¼	46¾	1-4	12x12	40	34
S-246	2,000	925	W-246	3,250	1,525	6.25	45½	55	2-4	13x13	40	42
S-247	2,400	1,150	W-247	3,900	1,900	7.50	53¼	63¼	2-4	13x13	45	50
S-248	2,800	1,375	W-248	4,550	2,275	8.75	62	71½	2-4	14x14	50	58
S-249	3,200	1,600	W-249	5,200	2,640	10.00	70¼	79¾	3-4	14x14	55	64
33 Series—Height of Water Line, 53". Height Flow Outlet, 64½". Width of Section, 47". Size Smoke Pipe, 16".												
S-335	2,900	1,300	W-335	4,650	2,150	7.32	37¼	47¾	1-5	14x14	40	42
S-336	3,600	1,650	W-336	5,800	2,725	9.10	45½	56	2-5	15x15	40	51
S-337	4,300	2,000	W-337	6,950	3,300	10.87	53¼	64¼	2-5	16x16	40	60
S-338	5,000	2,350	W-338	8,100	3,875	12.65	62	72½	2-5	16x16	50	69
S-339	5,700	2,700	W-339	9,250	4,450	14.42	70¼	80¾	3-5	18x18	50	78
S-3310	6,400	3,050	W-3310	10,400	5,025	16.20	78½	89	3-5	18x18	55	87
40 Series—Height of Water Line, 57". Height Flow Outlet, 69". Width of Section, 57½". Size Smoke Pipe, 20".												
S-406	5,200	2,300	W-406	8,300	3,795	12.03	45½	55¼	2-5	16x16	50	50
S-407	6,200	2,800	W-407	9,900	4,620	14.38	53¼	65	3-5	18x18	50	66
S-408	7,200	3,300	W-408	11,500	5,445	16.73	62	72¼	3-5	18x18	55	76
S-409	8,200	3,800	W-409	13,100	6,270	19.08	70¼	80¾	3-5	20x20	55	86
S-410	9,200	4,300	W-410	14,700	7,095	21.43	78½	88¾	3-5	20x20	60	96
S-411	10,200	4,800	W-411	16,300	7,920	23.77	86¾	97	3-5	21x21	60	106
S-412	11,200	5,300	W-412	17,900	8,745	26.13	95	105¼	4-5	22x22	65	116
S-413	12,200	5,800	W-413	19,500	9,570	28.47	103¼	113½	4-5	22x22	70	126
S-414	13,000	6,300	W-414	20,800	10,395	30.82	111½	121¼	4-5	23x23	75	136
S-415	13,800	6,800	W-415	22,100	11,220	33.17	119¼	130	4-5	23x23	75	146
S-416	14,600	7,300	W-416	23,400	12,045	35.52	128	138¾	4-5	24x24	80	156
S-417	15,400	7,800	W-417	24,700	12,870	37.87	136¼	146½	4-5	24x24	80	166
S-418	16,200	8,300	W-418	26,000	13,695	40.22	144½	154¼	4-5	25x25	80	176
S-419	17,000	8,700	W-419	27,300	14,520	42.57	152½	163	5-5	25x25	85	186
S-420	17,800	9,100	W-420	28,200	15,015	44.92	161	171¼	5-5	25x25	90	196
S-421	18,200	9,500	W-421	29,200	15,675	47.27	169¼	179½	5-5	26x26	100	206
S-422	18,800	9,900	W-422	30,200	16,335	49.62	177½	187¾	5-5	26x26	100	216
S-423	19,400	10,300	W-423	31,200	16,995	51.97	185¼	196	5-5	27x27	100	226
S-424	20,000	10,700	W-424	32,200	17,655	54.32	194	204¼	5-5	27x27	100	236

National Bonded Imperial Sectional Boilers

32 Series—Height of Water Line, 53". Height of Top Outlet, 64½". Width of Section, 47". Size Smoke Pipe, 16".												
S-532	2,900	1,200	W-532	4,650	1,980	7.32	37¼	47¾	2-5	14x14	40	42
S-533	3,600	1,500	W-533	5,800	2,475	9.10	45½	56	2-5	15x15	40	51
S-732	4,300	1,800	W-732	6,950	2,970	10.87	53¾	64¼	2-5	16x16	40	60
S-832	5,000	2,100	W-832	8,100	3,465	12.65	62	72½	2-5	16x16	50	69
S-932	5,700	2,400	W-932	9,250	3,964	14.42	70¼	80¾	3-5	18x18	50	78
42 Series—Height of Water Line, 57". Height of Top Outlet, 69". Width of Section, 57½". Size Smoke Pipe, 20".												
S-642	5,200	2,200	W-642	8,300	3,620	12.03	45½	55¼	2-5	16x16	50	50
S-742	6,200	2,700	W-742	9,900	4,620	14.38	53¾	65	2-5	18x18	50	66
S-842	7,200	3,200	W-842	11,500	5,275	16.73	62	72¼	3-5	18x18	55	76
S-942	8,200	3,700	W-942	13,100	6,100	19.08	70¼	80¾	3-5	20x20	55	86
S-1042	9,200	4,200	W-1042	14,700	6,925	21.43	78½	88¾	3-5	20x20	60	96
S-1142	10,200	4,700	W-1142	16,300	7,750	23.77	86¾	97	3-5	21x21	60	106
S-1242	11,200	5,100	W-1242	17,900	8,400	26.12**	95	105¼	4-5	22x22	65	116
S-1342	12,200	5,500	W-1342	19,500	9,050	28.47	103¼	113½	4-5	22x22	70	126
S-1442	13,000	5,900	W-1442	20,800	9,700	30.82*	111½	121¼	4-5	23x23	75	136
S-1542	13,800	6,300	W-1542	22,100	10,350	33.17	119¼	130	4-5	23x23	75	146
S-1642	14,600	6,700	W-1642	23,400	11,000	35.52*	128	138¼	4-5	24x24	80	156

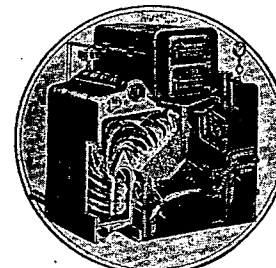
*Maximum grate area which can be furnished. Unless otherwise ordered these sizes are shipped with 10 grate bars having a grate area of 23.77 sq. ft. **Shipped with 9 grate bars having area of 21.43 sq. ft.

†Square feet of exterior boiler surface. Approximate number of pounds of covering per boiler section, 24 series, 50 lb.; 32 and 33 series, 60 lb.; 40 and 42 series, 67 lb.

‡Recommended only for oil burning on ordinary stack.

Newport Boiler Company

General Offices: 529 S. Franklin St., Chicago



MAGAZINE
FEED

OIL
BURNING

DISTRIBUTORS—All Principal Cities United States and Canada

This boiler cuts fuel bills from 30 to 50 per cent burning No. 1 Buckwheat coal

"Newport"—alone, provides these Heater essentials:

Convenience Coaling only necessary from once a day to once a week, depending upon the weather. It is therefore the Home Owner's choice.

Economy "Newport" combustion is complete, conforming to all the laws of science. Saves from \$5 to \$7 per ton, burning No. 1 Buckwheat coal.

Uniform Heat is provided by the never varying thickness of the fuel bed, that supplies heat for every nook and corner, automatically controlled.

Adaptability the patented, adjustable throat, which is water cooled, insures maximum efficiencies, burning all sizes and kinds of coal, coke or oil.

NEWPORT COAL BURNING BOILERS

Boiler Number	Rating Square Feet	*Maximum Direct Radiation Load	Boiler Number	Rating Square Feet	*Maximum Direct Radiation Load	Length Overall	Width Overall	Chimney Flue	
								Size Inches	Height Feet
STEAM			WATER						
S-4	594	340	W-4	1000	572	30 1/4"	32"	8 x 12	35
S-5	750	430	W-5	1250	714	36 1/2"	32"	8 x 12	35
S-6	907	518	W-6	1500	857	42 1/4"	32"	8 x 12	40
S-7	1063	607	W-7	1750	1000	49"	32"	12 x 12	40
S-8	1219	696	W-8	2000	1143	55 1/4"	32"	12 x 12	45
S-55	1375	786	W-55	2282	1304	64"	32"	12 x 16	40
S-66	1688	965	W-66	2782	1590	80 1/4"	32"	12 x 16	45
S-77	2000	1143	W-77	3313	1893	96 1/4"	32"	16 x 16	50
S-88	2313	1322	W-88	3813	2179	112 1/4"	32"	16 x 16	50
S-99	2625	1500	W-99	4313	2464	69"	32"	16 x 16	50
S-1010	2938	1679	W-1010	4813	2749	75 1/4"	32"	18 x 18	50
S-1111	3250	1858	W-1111	5313	3035	81 1/2"	32"	18 x 18	55

NEWPORT OIL BURNING BOILERS

O-S-4	594	340	O-W-4	1000	572	30 1/4"	32"	8 x 12	35
O-S-5	750	430	O-W-5	1250	714	36 1/2"	32"	8 x 12	35
O-S-6	907	518	O-W-6	1500	857	42 1/4"	32"	8 x 12	40
O-S-7	1063	607	O-W-7	1750	1000	49"	32"	12 x 12	40
O-S-8	1219	696	O-W-8	2000	1143	55 1/4"	32"	12 x 12	40
O-S-55	1375	786	O-W-55	2282	1304	64"	32"	12 x 16	45
O-S-66	1688	965	O-W-66	2782	1590	80 1/4"	32"	12 x 16	45
O-S-77	2000	1143	O-W-77	3313	1893	96 1/4"	32"	16 x 16	50
O-S-88	2313	1322	O-W-88	3813	2179	112 1/4"	32"	16 x 16	50
O-S-99	2625	1500	O-W-99	4313	2464	128 1/4"	32"	18 x 18	50
O-S-1010	2938	1679	O-W-1010	4813	2749	144 1/4"	32"	18 x 18	50
O-S-1111	3250	1858	O-W-1111	5313	3035	160 1/4"	32"	18 x 18	55

*The "Maximum Direct Radiation Load" is the maximum actual amount of square feet of cast iron column radiation or its equivalent that we recommend be attached to boiler. This amount provides a safety factor of 75 per cent, being ample for average conditions, to take care of the load imposed by mains, risers, etc.; but does not provide an allowance for the heating of water for domestic use, or any extra load where attached radiation will condense more than 0.25 (1/4) lb. of steam, per square foot per hour.

The water line on all Steam Boilers is 40 1/2 in.

Height overall Coal Boilers 62 in.

Oil Boilers 48 3/4 in.