

Utica Heater Company

UTICA, New York

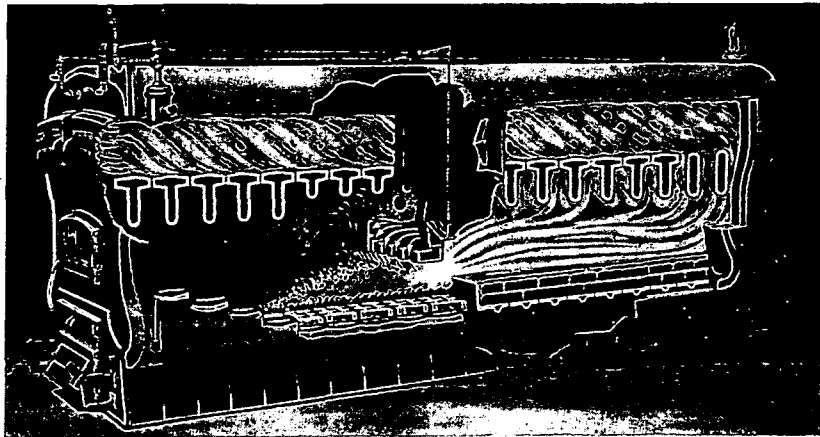
365 E. Illinois St.
CHICAGO, ILL.

628 Union Building
CLEVELAND, O.

1843 Grand Central Term'l
NEW YORK, N. Y.

Representatives in Principal Jobbing Centers

Utica-Imperial SUPER-SMOKELESS Boilers
Burn Soft Coal Smokelessly—Use Any Available Fuel



Patented January 10, 1922.

Utica-Imperial SUPER-SMOKELESS Boiler

Cut-away View, Showing Primary and Secondary Combustion Chambers and Air Inlets

SUPER-SMOKELESS BOILERS—

Are designed to operate smokelessly when burning soft coal. They utilize any available fuel, burning either hard coal, soft coal, lignite, coke, fuel oil or gas with exceptional efficiency and decided economy.

ELIMINATION OF SMOKE—

Is attained by consuming the smoke and soot within the boiler. This complete combustion is due to the admission of highly heated air through water-jacketed inlets, in the baffle wall at the rear of the fire box. The admixture of oxygen at this point instantly converts the heavy gases into incandescent flames of unusual heating capacity. The smoke and soot are actually used as fuel and clean chimney and flues are maintained at all times.

SUPER-SMOKELESS Boilers comply with the most rigid smoke ordinances and are recommended by foremost heating engineers and leading architects for important buildings.

CONSTRUCTION—

SUPER-SMOKELESS Boilers have a single grate and are of sectional cast iron construction. Cast iron is highly resistant to corrosion and preferable to steel where low pressure permits using it. The sectional construction permits easy handling in shipment as well as installation in completed buildings.

The baffle wall is a specially designed water section of the boiler. It has a series of water-jacketed air inlets above the firebed and is covered on the side facing the fire by high-test plastic firebrick.

OPERATION—

SUPER-SMOKELESS Boilers are extremely simple to operate. No special skill or high priced help is required. Long firing periods are the rule and little care or attention is required for successful, smokeless operation.

Capacities and Dimensions of Utica-Imperial SUPER-SMOKELESS Boilers

Number Steam	Steam Ratings, Sq. Ft.		Number Water	Water Ratings, Sq. Ft.		Grate Area Sq. Ft.	Length of Sections Inches	Length of Sections and Smoke Box Inches
	High Output	High Efficiency		High Output	High Efficiency			
S-245	1600	1200	W-245	2560	1920	5.00	37 1/4	48 1/2
S-246	2075	1500	W-246	3320	2400	6.25	45 1/2	56 3/4
S-247	2550	1800	W-247	4080	2880	7.50	53 3/4	63 1/2
S-248	3025	2100	W-248	4840	3360	8.75	62	71 1/2
S-249	3500	2400	W-249	5600	3840	10.00	70 1/4	79 3/4
S-335	3000	2000	W-335	4800	3200	7.32	37 1/4	49 1/2
S-336	3750	2500	W-336	6000	4000	9.10	45 1/2	57 3/4
S-337	4500	3000	W-337	7200	4800	10.87	53 3/4	66
S-338	5250	3500	W-338	8400	5600	12.65	62	72 1/2
S-339	6000	4000	W-339	9600	6400	14.42	70 1/4	80 3/4
S-3310	6750	4700	W-3310	10800	7520	16.20	78 1/2	89
S-405	4125	2750	W-405	6600	4400	9.68	37 1/4	49 1/4
S-406	5250	3500	W-406	8400	5600	12.03	45 1/2	57 1/2
S-407	6375	4250	W-407	10200	6800	14.38	53 3/4	65 3/4
S-408	7500	5000	W-408	12000	8000	16.73	62	74
S-409	8625	5750	W-409	13800	9200	19.08	70 1/4	82 1/4
S-4010	9750	6500	W-4010	15600	10400	21.43	78 1/2	90 1/2
S-4011	10875	7250	W-4011	17400	11600	23.77	86 3/4	97
S-4012	12000	8000	W-4012	19200	12800	23.77	95	105 1/4
S-4013	12700	8750	W-4013	20320	14000	23.77	103 1/4	113 1/2
S-4014	13500	9500	W-4014	21600	15200	23.77	111 1/2	121 3/4
S-4015	14250	10250	W-4015	22800	16400	23.77	119 3/4	130
S-4016	15000	11000	W-4016	24000	17600	23.77	128	138 1/4
S-4017	15750	11750	W-4017	25200	18800	23.77	136 1/4	146 1/2
S-4018	16375	12500	W-4018	26200	20000	23.77	144 1/2	154 3/4
S-4019	17000	13250	W-4019	27200	21200	23.77	152 3/4	163
S-4020	17600	14000	W-4020	28160	22400	23.77	161	171 1/4
S-4021	18150	14750	W-4021	29040	23600	23.77	169 1/4	179 1/2
S-4022	18650	15500	W-4022	29840	24800	23.77	177 1/2	187 3/4
S-4023	19100	16250	W-4023	30560	26000	23.77	185 3/4	196
S-4024	19500	17000	W-4024	31200	27200	23.77	194	204 1/4

Capacities and Dimensions of Utica-Duplex SUPER-SMOKELESS Boilers

Number Steam	Steam Ratings, Sq. Ft.		Number Water	Water Ratings, Sq. Ft.		Grate Area Sq. Ft.	Length of Sections Inches	Length of Sections and Smoke Box Inches
	High Output	High Efficiency		High Output	High Efficiency			
S-827	12750	8500	W-827	20400	13600	28.76	53 3/4	70 3/4
S-828	15000	10000	W-828	24000	16000	28.76	62	79
S-829	17250	11500	W-829	27600	18400	33.46	70 1/4	87 1/4
S-8210	19500	13000	W-8210	31200	20800	33.46	78 1/2	95 1/2
S-8211	21750	14500	W-8211	34800	23200	38.16	86 3/4	103 3/4
S-8212	24000	16000	W-8212	38400	25600	38.16	95	112
S-8213	25400	17500	W-8213	40640	28000	42.86	103 1/4	120 1/4
S-8214	27000	19000	W-8214	43200	30400	42.86	111 1/2	128 1/2
S-8215	28500	20500	W-8215	45600	32800	42.86	119 3/4	136 3/4
S-8216	30000	22000	W-8216	48000	35200	47.54	128	145
S-8217	31500	23500	W-8217	50400	37600	47.54	136 1/4	153 1/4
S-8218	32750	25000	W-8218	52400	40000	47.54	144 1/2	161 1/2

Height of water line: 24 series, 45 1/4 inches; 33 series, 53 inches; 40 series, 57 inches; 82 series, 57 inches.

Equipment Shipped with Boilers

All SUPER-SMOKELESS Boilers are provided with equipment of the best type. Steam Boilers are equipped with Water Column with gauge glass and compression cocks; Retard Steam Gauge with Bourdon brass tube spring, Non-Glare Dial, syphon and cock; All-brass Pop Safety Valve, A. S. M. E. Standard; and Automatic All-metal Damper Regulator suitable for low pressure. Every boiler is furnished with a complete set of firing tools, consisting of shaker handle, hook, hoe, slice bar and flue brush with handle. Duplex Steam Boilers are equipped with Steam Header, Return Yoke, and Equalizer fitted with Hartford Connection which may be used or not, as desired.