

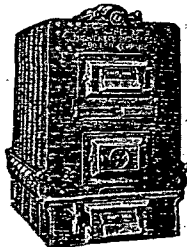
Universal Smokeless Boiler Company

100% WATER TUBE SELF-CLEANING BOILERS
Factory and Main Office RAVENNA, OHIO

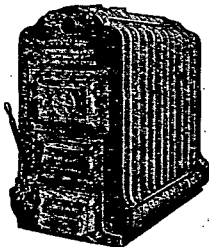
Guarantee

On installation under 5000 ft. steam, we guarantee our boilers to provide sufficient steam to take care of 50 per cent of their rated capacity shown within. On installations over 5000 ft. steam 60 per cent of the rated capacity.

This guarantee is based on using bituminous high volatile coal similar to "Pittsburgh Vein" run-of-mine.
Our SMOKELESS BOILERS comply with the law and are guaranteed to pass the smoke ordinance of all cities, using bituminous coal. The smokeless feature is fool-proof. Expert or careful firing not necessary.



Double Grate Down-draft Smokeless (Patented)



Single-Grate Low Water Line (Patented)

All parts and prices subject to change without notice.

24" SINGLE-GRATE, UP-DRAFT
Water-line 47 in. Width overall 36 in.
Height overall 57 in.

Boiler No.	Total No. of Sections	Grate Area	Steam Rating	Water Rating	Approx. Shipping Weight
231	6	3.00	1000	1600	2800
241	7	4.00	1200	1920	3000
251	8	5.00	1450	2320	3500
252	9	5.00	1750	2800	4100
253	10	5.00	2000	3200	4280
262	10	6.00	2250	3600	4300
272	11	7.00	2500	4000	4680
273	12	7.00	2750	4400	4735
282	12	8.00	3000	4800	4630
292	13	9.00	3250	5200	5200
293	14	9.00	3500	5600	5700

CAST IRON SECTIONAL BOILERS

100 Per Cent Water Tube Construction

36" SERIES—DOUBLE-GRATE DOWN-DRAFT. SMOKELESS

Water-line 48 in. if base of boiler is set in a pit 13 in. deep.
Width overall 49 in. Height overall 73 in. Returns 4-2 1/2 in.

Boiler Number	Steam Rating	Water Rating	Grate Area Square Feet	Grate Length Inches	No. Sections	Approximate Section Length Inches	Outlets—3 1/2 in.	Smallest Diameter Chimney Inside, In.	Height Chimney per Sea Level—Square Feet	List Price	Approximate Shipping Weight
32	2600	4160	9.75	19	7	45	2	15	45	\$800	5250
33	3100	4960	9.75	19	8	51	2	15	45	950	6250
42	3600	5760	13.0	24	8	51	2	17	45	1010	5800
43	4000	6400	13.0	24	9	57	2	15	45	1150	6760
53	4500	7200	16.26	30	10	64	3	16	50	1260	7360
54	5000	8000	16.26	30	11	70	3	16	50	1310	8140
64	5500	8800	19.5	36	12	77	3	16	50	1410	8750
65	5800	9280	19.5	36	13	85	3	16	50	1560	9300
74	6200	9920	22.74	42	13	85	4	17	55	1610	9300
75	6500	10400	22.74	42	14	92	4	17	55	1750	10065
84	6800	10880	26.0	48	14	92	4	18	60	1700	9900
85	7200	11520	26.0	48	15	99	4	18	60	1800	10725
95	7800	12480	29.26	54	16	105	5	19	65	1900	11250
96	8100	12900	29.26	54	17	111	5	19	65	2000	12200
97	8400	13440	29.26	54	18	117	5	19	65	2100	12850
106	8800	14080	32.52	60	18	120	5	20	70	2200	12700
107	9000	14400	32.52	60	19	127	5	20	70	2300	13530
108	9400	15040	32.52	60	20	134	5	20	70	2400	14355
117	9800	15680	36.0	66	20	140	6	21	75	2500	14135
118	10100	16160	36.0	66	21	147	6	21	75	2650	14960
119	10400	16640	36.0	66	22	153	6	21	75	2800	15785
1110	12000	19200	36.0	66	23	160	6	21	75	2950	17600

24" SERIES—DOUBLE-GRATE, DOWN-DRAFT

Water-line 57 in. Height overall 67 in. Outlets 4 in. Width 36 in. Returns 2 in.

432	1485	2400	5.0	15	7	35	.....	12	40	\$548	3135
433	1620	2600	5.0	15	8	40	.....	12	40	632	3575
443	1980	3200	6.60	20	9	45	.....	15	45	686	3900
444	2160	3400	6.60	20	10	50	.....	15	45	772	4400
454	2430	3900	8.32	25	11	60	.....	16	45	828	4675
455	2700	4300	8.32	25	12	65	.....	16	45	914	5060
465	2970	4600	10.0	30	13	70	.....	16	45	970	5335
466	3150	5000	10.0	30	14	75	.....	18	45	1040	5720
476	3420	5500	11.16	35	15	80	.....	18	50	1104	5995
477	3600	5800	11.18	35	16	85	.....	18	50	1190	6380

36" SINGLE-GRATE, UP-DRAFT

Water-line 48 in. Width overall 49 in. Height 60 in.

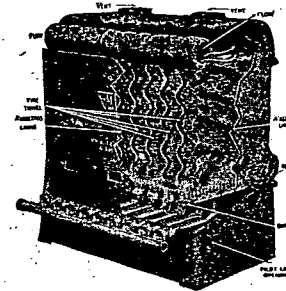
Boiler Number	Total No. Sections	Grate Area	Steam Rating	Water Rating	Approx. Shipp'g Wt.
131	6	5.60	2000	3200	4070
132	7	5.60	2450	4000	4950
142	8	7.45	2900	4800	5335
143	9	7.45	3350	5360	6160
152	9	9.25	3800	6680	6200
153	10	9.25	4250	6800	6625
154	11	9.25	4700	7520	7590
162	10	11.10	5150	8270	8270
163	10	11.10	5600	8960	7122
164	12	11.10	6050	9680	7942
173	12	12.95	6500	10400	7700
174	13	12.95	6950	11120	8437
175	14	12.95	7400	11840	9256
183	13	14.8	7850	12560	8497
184	14	14.8	8300	13280	8932
185	15	14.8	8750	14000	9751
194	15	16.65	9200	14720	9427
195	16	16.65	9650	15440	10246
196	17	16.65	10100	16160	10637
197	18	16.65	10550	16880	11412

Universal Cast Iron Sectional Boilers

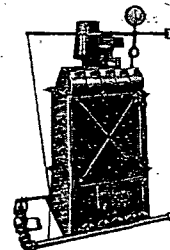
For Gas or Oil

SECTIONAL GAS AND OIL BOILERS

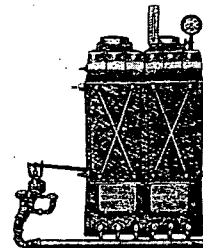
With Special Circulating Section



Patented



Steam Boiler



Water Boiler

Boiler Number	Steam Rating	Number Sections	List Price	Approximate Shipping Weight
41 TS	480	4	\$185	1137
51 TS	660	5	230	1300
61 TS	840	6	275	1475
32 TS	1020	7	320	1629
42 TS	1200	8	365	1789
52 TS	1380	9	410	1954
62 TS	1560	10	455	2116
72 TS	1740	11	500	2281
33 TS	1920	12	545	2445
43 TS	2100	13	590	2606
53 TS	2280	14	635	2767
63 TS	2460	15	680	2928
73 TS	2640	16	725	3094
34 TS	2820	17	770	3227
44 TS	3000	18	815	3319
54 TS	3180	19	860	3582
64 TS	3360	20	905	3741
74 TS	3540	21	950	3938
35 TS	3720	22	995	4095
45 TS	3900	23	1040	4257
55 TS	4080	24	1085	4431
65 TS	4260	25	1130	4604
75 TS	4440	26	1175	4769
36 TS	4620	27	1220	4932
46 TS	4800	28	1265	5100
56 TS	4980	29	1310	5263
66 TS	5160	30	1355	5433
76 TS	5340	31	1400	5668

STEAM BOILERS—Height to water-line 26 in. Height to top flue opening 38 in. Returns—Two 3 in. Flows—Two 3 in. Extra 1 1/2 in. flows on boilers over 10 sections.

With Plain Section

Number	Steam Rating	Water Rating	Number Sections	List Water Price	List Steam Price	Approx. Shipping Weight
41 PS and P W	400	665	4	\$138	\$163	1017
51 PS and P W	500	905	5	175	202	1150
61 PS and P W	700	1145	6	213	240	1293
32 PS and P W	850	1385	7	250	279	1419
42 PS and P W	1000	1625	8	288	317	1549
52 PS and P W	1150	1865	9	325	356	1684
62 PS and P W	1300	2105	10	363	394	1816
72 PS and P W	1450	2345	11	400	433	1951
33 PS and P W	1600	2585	12	438	471	2085
43 PS and P W	1750	2825	13	475	510	2216
53 PS and P W	1900	3065	14	513	548	2347
63 PS and P W	2050	3305	15	550	587	2478
73 PS and P W	2200	3545	16	588	625	2614
34 PS and P W	2350	3785	17	625	664	2717
44 PS and P W	2500	4025	18	663	702	2879
54 PS and P W	2650	4265	19	700	741	3012
64 PS and P W	2800	4505	20	738	779	3141
74 PS and P W	2950	4745	21	775	818	3278
35 PS and P W	3100	4985	22	813	856	3405
45 PS and P W	3250	5225	23	850	895	3537
55 PS and P W	3400	5465	24	888	933	3681
65 PS and P W	3550	5705	25	925	972	3824
75 PS and P W	3700	5945	26	963	1010	3969
36 PS and P W	3950	6185	27	1000	1049	4092
46 PS and P W	4100	6425	28	1038	1087	4231
56 PS and P W	4250	6665	29	1075	1126	4363
66 PS and P W	4400	6905	30	1113	1164	4503
76 PS and P W	4550	7145	31	1150	1203	4708

STEAM BOILERS—Height to top flue opening 38 in. Height to water-line 26 in. Returns—Two 3 in. Flows—Two 3 in. Extra 1 1/2 in. flows on boilers of over 10 sections.

WATER BOILERS—Height to top flue opening 38 in. Returns—Two 3 in. Flows—Two 3 in.