

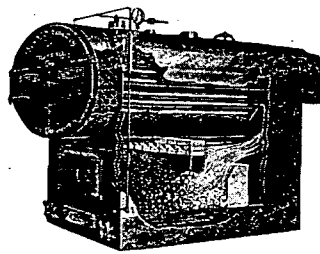
HEGGIE-SIMPLEX BOILER COMPANY

JOILET, ILLINOIS

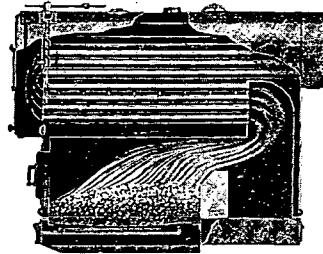
General Sales Office, 1909 Conway Bldg., CHICAGO

Cleveland Toledo Cincinnati Columbus Detroit
 Denver Oklahoma City Milwaukee Memphis
 St. Louis Charlotte, N. C. New York Minneapolis

SIMPLEX STEEL HEATING BOILERS



With Smoke Burning Arch



Straight Draft Type

These Boilers Will Heat All Radiation Shown by Their Capacity

SIMPLEX combines both firebox and double return tubular types of boilers into one. *Providing:* An unusually large direct firebox heating surface. Double return tubular flues which force long gas travel and insure thorough utilization of heat. A smoke-burning arch which forces soot and gases to ignite through contact with the burning fuel. A large combustion chamber in the rear of the firebox which insures thorough combustion before gases are allowed to pass into the flues. A single body of water, in direct contact with every heated surface, that circulates freely around the tubes and firebox, unimpeded by pipe connections.

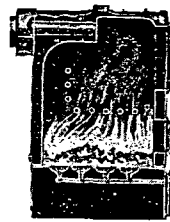
SIMPLEX BOILERS burn any fuel—COAL, OIL, GAS or WOOD. They burn smokelessly and save 25% to 40% in consumption. Occupy only 2/3 the floor space ordinarily needed. Come in one piece (except base) ready for setting—without rivets, pipe connecting or bricking. There are no laps to break and leak, no ordinary iron castings to crack and no brick work to leak air and spoil draft control.

SIMPLEX BOILERS are electric arc welded, built according to A. S. M. E. Code—of flange steel plate. Working pressure 15 lb. Tested to 100 lb. Hydrostatic pressure. Fully guaranteed.

SIMPLEX WATER HEATING GARBAGE BURNERS

The back and forth flue travel, together with the complete manner in which the water surrounds every heated surface in SIMPLEX HEATERS produce savings of 30% to 60% in fuel.

Catalog Number.....	35	36	37	38	39	40	41	42
Capacity, Gallons per Hour.....	600	800	1000	1200	1500	1800	2200	2600
Height Over-all.....In.	60	60	60	66	66	68	68	68
Dimensions of Floor Space Required.....In.	29x26	29x32	29x39	36x39	36x46	41x41	41x47	41x53
Dimensions Over-all.....In.	28x31	28x37	28x44	36x44	36x50	41x44	41x51	41x58
Dimensions of Lower Grates.....In.	22x20	22x26	22x33	28x33	28x38	33x32	33x38	38x44
Size Flow and Return.....In.	2 1/2	2 1/2	2 1/2	2 1/2	3	3	4	4
Diameter of Smoke Pipe.....In.	10	10	10	11	11	12	12	12
Approximate Shipping Weight.....	1750	2000	2250	2450	3000	3300	3700	4000



Note how water circulates through tubes forming garbage grate; ample grate area; simplicity of construction.



SPECIFICATIONS, SIMPLEX STEEL HEATING BOILERS

No. of Boiler.....	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
Capacity, Steam.....	850	1000	1150	1300	1600	1900	2200	2600	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500
Water.....	1400	1650	1900	2100	2650	3100	3600	4300	4900	5750	6550	7400	8200	9000	9850	10700	11500	12300
Weight—Base Boiler.....	1613	1791	1877	2042	2372	2724	2939	3448	3730	4557	4832	5323	5501	5785	6094	6828	7103	7479
—Base Only.....	259	276	290	319	370	421	461	542	593	718	748	818	838	868	950	1032	1061	1101
—Grates Only.....	401	401	401	470	470	470	649	649	649	998	998	998	1164	1164	1164	1537	1537	1537
—Steam Trim.....	33	33	33	33	33	33	34	34	34	37	37	37	37	37	37	45	45	45
—Firing Tools.....	24	24	24	24	24	24	26	26	26	29	29	29	29	29	29	36	36	36
—Total.....	2320	2525	2625	2872	3321	3621	4009	4559	4883	6057	6351	6865	7249	7553	7874	9005	9301	9698
Boiler Horsepower.....	8.5	10	11.5	13	16	19	22	26	30	35	40	45	50	55	60	65	70	75
—Width.....	27	27	27	30	30	30	34	34	34	40	40	40	47	47	47	52	52	52
—Length.....	52	58	64	58	70	82	79	91	103	92	98	104	101	107	113	109	115	121
Width Firebox.....	22	22	22	25	25	25	29	29	29	34	34	34	41	41	41	46	46	46
Length.....	31	37	43	37	49	61	55	67	79	66	72	78	72	78	84	78	84	90
Grate Area.....	4.4	4.4	4.4	5.67	5.67	5.67	7.88	7.88	7.88	10.66	10.66	10.66	12.87	12.87	12.87	16.52	16.52	16.52
Diam. Breaching.....	14	14	14	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
—Stack.....	12	12	12	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24
Height.....	40	40	40	50	50	50	55	55	55	60	60	60	65	65	65	70	70	70
Diam. Breaching 2 Boilers.....	20	20	20	26	26	26	28	28	28	30	30	30	34	34	34	38	38	38
—Stack 2 Boilers.....	18	18	18	24	24	24	26	26	26	28	28	28	32	32	32	34	34	34
Height * 2.....	50	50	50	60	60	60	65	65	65	70	70	70	75	75	75	80	80	80
Size Steam Opening.....	4	4	4	4	4	4	6	6	6	6	6	6	8	8	8	8	8	8
—Return.....	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4
—Safety Valve.....	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3	3	3
Diam. Flues.....	3	3	3	3	3	3	3	3	3	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Sq. Ft. Boiler Covering Required.....	45	50	55	55	65	75	80	90	100	100	104	110	116	126	132	140	147	154
Height Water Line.....	55	55	55	58	58	58	62	62	62	69	69	69	72	72	72	77	77	77

No. of Boiler.....	119	120	121	122	123	124	125	126	127	128	129	130	131
Capacity, Steam.....	8500	10000	11000	12000	13000	14500	15500	16500	18500	20000	22000	25000	28000
Water.....	13950	16400	18050	19700	21300	23800	25400	27100	30350	32800	36100	41000	45900
Weight—Base Boiler.....	8426	8733	11115	11549	12021	13556	14120	14656	16492	17771	22041	23619	25197
—Base Only.....	626	667	1019	1047	1087	1092	1126	1160	1188	1256	1276	1344	1412
—Grates Only.....	1770	1770	1859	1859	1859	2269	2269	2269	2573	2573	2933	2933	2933
—Steam Trim.....	45	45	51	51	51	55	55	55	64	64	72	72	72
—Firing Tools.....	36	36	36	36	36	39	39	39	45	45	45	45	45
—Total.....	10903	11251	14080	14542	15054	17011	17609	18179	20362	21709	26367	28013	29659
Boiler Horsepower.....	85	100	110	120	130	145	155	165	185	200	220	250	280
—Width.....	57	57	63	63	63	70	70	70	78	78	84	84	84
—Length.....	121	133	123	129	135	129	135	141	141	153	153	165	177
Width Firebox.....	51	51	57	57	57	63	63	63	72	72	77	77	77
Length.....	90	102	90	96	102	96	102	108	102	114	114	126	138
Grate Area.....	20.61	20.61	22.95	22.95	22.95	28.21	28.21	28.21	35.51	35.51	37.68	37.68	37.68
Diam. Breaching.....	28	28	30	30	30	34	34	34	38	38	42	42	42
—Stack.....	26	26	28	28	28	32	32	32	36	36	40	40	40
Height.....	75	75	75	75	75	80	80	80	90	90	100	100	100
Diam. Breaching 2 Boilers.....	40	40	44	44	44	50	50	50	54	54	56	56	56
—Stack 2 Boilers.....	36	36	40	40	40	46	46	46	50	50	54	54	54
Height * 2.....	85	85	85	85	85	90	90	90	100	100	110	110	110
Size Steam Opening.....	8	8	10	10	10	10	10	10	12	12	12	12	12
—Return.....	4	4	5	5	5	5	5	5	6	6	6	6	6
—Safety Valve.....	3	3	3 1/2	3 1/2	3 1/2	4	4	4	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Dia. Flues.....	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	4	4	4	4	4
Sq. Ft. Boiler Covering Required.....	165	180	180	190	197	205	215	222	240	260	280	310	340
Height Water Line.....	80	80	92	92	92	95	95	95	104	104	111	111	111