Fitzgibbons Boiler Co., Inc.

Established 1886

General Offices: 570 Seventh Avenue, New York, N.Y.

Works: OSWEGO, N.Y.

Branches and Representatives in Principal Cities

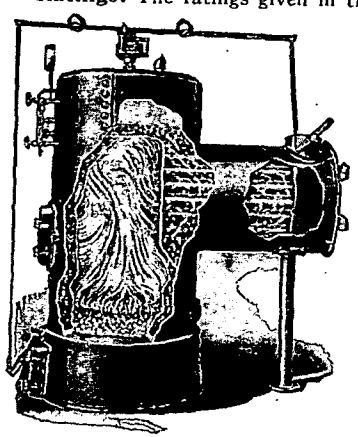
The Sign of the BEST in STEEL BOILER HEAT

PRODUCTS: Fitzgibbons Steel Heating and Power Boilers, listed on this and the following five pages, meet the heating requirements of all buildings from the small home to the gigantic modern skyscraper. The line includes types for burning anthracite, bituminous (soft) coals or coke, or for oil, gas or stoker firing, in steam, vapor, vacuum or hot water systems, as specified. In other words, there is a Fitzgibbons Steel Boiler for every fuel and every heating system, in installations of every size from the smallest to the largest.

Distinctive Characteristics: Highest quality construction down to the last detail; quick "pick-up" of the heating load; high efficiency resulting in large fuel savings, even with below average attendance; easy installation; compact space requirements; durability that outlasts the enclosing buildings; complete heating satisfaction from every point of view.

Descriptive Literature: Illustrated Catalogs and Bulletins, giving full details of design and construction will be mailed on request.

Ratings: The ratings given in the following tables can be depended upon. They are the **total radiation loads** (taken at the boiler outlet) which the respective boilers will heat, with 2 lbs. pressure at the boiler for Steam and 180° F for Hot Water. Ratings are expressed in sq. ft. of equivalent cast iron radiation, emitting 240 B.t.u. per sq. ft. per hour for Steam, and 150 B.t.u. per sq. ft. per hour for Hot Water.



FITZGIBBONS
Copper-Steel Residence Heating Boilers
Electric-Welded.

for Small and Medium Size Heating Plants. All Fuels and All Heating Systems.

TABLE 1 — for Anthracite, Bituminous Coals or Coke.

TABLE 1-B — for burning Soft Coal Smokelessly.

TABLE 1-OH—for Oil, Gas, or Domestic Stoker firing. Bulletins giving ratings of Table 1-OH boilers sent on request.

Ratings and Dimensions TABLES 1 and 1-B Combined—Sizes: 400 to 3200 sq. ft. Steam Radiation Built for 15 lbs. w.s.p.—A.S.M.E. Code

Number of Boiler		J-8	H-8	J-12	H-16	H-20	H-24	H-28	H-32	H-36	H-44	H-50	H-58	H-64
Number of Smokeless Boiler		None	B-8	B-12	B-16	B-20	B-24	B-28	B-32	B-36	B-44	B-50	B-58	B-64
Steam Rating	sq. ft.	400	400	600	800	1000	1200	1400	1600	1800	2200	2500	2900	3200
Hot Water Rating	sq. ft.	700	700	1000	1300	1600	1900	2200	2600	2900	3500	4000	4600	5100
Heating Surface	sq. ft.	33	35	51	67	78	95	108	123	150	192	233	249	295
*Comp. Grate Area	sq. ft.	2.5	3.36	3.36	4.35	4.35	5.84	5.84	7.10	7.10	8.50	8.50	10.00	10.00
Diam. Vertical Shell	inches	24	27	27	30	30	34	34	38	38	41	41	44	44
Length Boiler	ft. in.	3-3	3-9	4-5	4-9	5-3	5-8	6-2	6-9	7-9	7-7	8-7	8-4	9-4
Diam. Horizontal Shell	inches	18	18	18	21	21	23	23	27	27	31	31	33	33
Height Overall	ft. in.	4-2	4-3	4-3	4-8	4-8	5-0	5-0	5-5	5-5	5-9	5-9	6-1	6-1
Water Line	ft. in.	3-5	3-7	3-7	4-0	4-0	4-4	4-4	4-7	4-7	4-11	4-11	5-2	5-2
Diameter Grate	inches	19	22	22	25	25	29	29	32	32	35	35	38	38
Diameter Base	inches	26½	30	30	33½	33½	37½	37½	40½	40½	42¾	42¾	45¾	45¾
Space to Draw Tubes	inches	18	18	22	24	30	27	32	31	43	35	47	40	52
Smoke Uptake	inches	5½x12½	5½x12½	5½x12½	6½x15½	6½x15½	7½x17½	7½x17½	8½x20½	8½x20½	9½x22	9½x22	10x25	10x25
Stack Diameter	inches	8	8	8	10	10	12	12	14	14	16	16	18	18
Stack Height	feet	40	40	45	40	45	45	45	50	50	50	60	60	60
Approx. Covering Surface	sq. ft.	29	33	37	52	58	60	66	72	80	86	94	102	110
Approx. Shipping Weight	lbs.	920	1150	1225	1525	1625	2000	2100	2400	2460	3000	3200	3550	3800

*It has been established that the Circular Grate in the Fitzgibbons Cylindrical Furnace is more effective than a rectangular grate the size of the circumscribed square. Hence, for comparative purposes, the **Comparative Grate Area** shown in the Tables is the area of the square circumscribed upon a circle the size of the Fitzgibbons Grate.

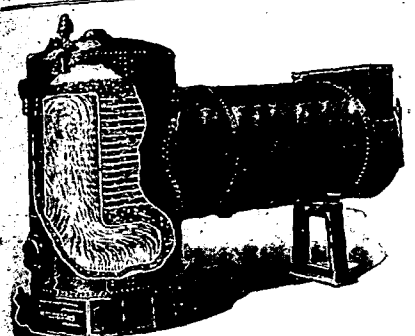
FITZGIBBONS
Steel Heating Boilers
for Intermediate and Large Size Heating Plants.

TABLE 2—for All Fuels and All Heating Systems.

Sizes: 3800 to 25000 sq. ft. Steam Ratings—Riveted Longitudinal Seams—Built for 15 lbs. w.s.p. A.S.M.E. Code

Number of Boiler		H76	H86	H98	H108	H132	H144	H160	H170	H200	H220	H250	H270	H310	H330	H360	H380	H440
Steam Rating	sq. ft.	3800	4300	4900	5400	6600	7200	8000	8500	10000	11000	12500	13500	15500	16500	18000	19000	22000
Hot Water Rating	sq. ft.	6000	6900	7900	8700	11000	12000	13500	14500	16000	17500	20000	21500	25000	26500	29000	30500	35000
Heating Surface	sq. ft.	354	393	397	428	582	665	674	772	826	920	1048	1109	1308	1372	1511	1571	1800
*Comp. Grate Area	sq. ft.	12.8	12.8	15.4	15.4	18.8	18.8	21.0	21.0	24.2	24.2	29.4	29.4	32.0	32.0	36.0	36.0	38.1
Diam. Vertical Shell	ft. in.	4-1	4-1	4-5	4-5	4-10	4-10	5-1	5-1	5-5	5-5	5-11	5-11	6-3	6-3	6-7	6-7	6-10
Length Boiler	ft. in.	9-1	10-1	9-7	10-7	10-9	11-9	10-10	11-10	11-10	12-10	12-2	12-8	14-0	14-6	14-9	15-2	16-0
Diam. Horiz. Shell	ft. in.	3-4	3-4	3-6	3-6	4-0	4-0	4-3	4-3	4-6	4-6	5-0	5-0	5-2	5-2	5-6	5-6	5-9
Height Overall	ft. in.	7-1	7-1	7-2	7-2	7-10	7-10	8-2	8-2	8-11	7-11	9-6	9-6	9-8	9-8	10-8	10-8	11-1
Water Line	ft. in.	6-0	6-0	6-0	6-0	6-7	6-7	6-11	6-11	7-11	7-11	8-5	8-5	8-7	8-7	9-3	9-3	9-6
Diameter Grate	inches	43	43	47	47	52	52	55	55	59	59	65	65'	68	68	72	72	74
Space to Draw Tubes	ft. in.	3-10	4-10	3-9	4-9	4-9	5-9	4-9	5-9	6-7	7-7	6-6	7-0	7-10	8-4	8-2	8-8	9-3
Smoke Uptake	in.x in.	13½x26	13½x26	14x27	14x27	14x37	14x37	14x44	14x44	15x49	15x49	16x58	16x58	17x58	17x58	18x63	18x63	19x65
Stack Diameter	inches	20	22	22	22	24	24	26	26	28	30	30	30	32	32	34	34	36
Stack Height	feet	60	65	65	70	70	70	80	80	80	80	85	85	100	100	125	125	135
Approx. Cov. Surface	sq. ft.	128	138	143	154	180	193	195	208	250	265	285	294	330	338	358	375	400
Approx. Ship. Weight	lbs.	5250	6100	6650	7400	9500	10000	10500	11000	13000	13800	15200	16000	18400	19000	19500	20500	21500

*It has been established that the Circular Grate in the Fitzgibbons Cylindrical Furnace is more effective than a rectangular grate the size of the circumscribed square. Hence, for comparative purposes, the **Comparative Grate Area** shown in the Tables is the area of the square circumscribed upon a circle the size of the Fitzgibbons Grate.



FITZGIBBONS
Steel Heating and Power Boilers

for Heating Large Buildings of every description, and also for those having additional kitchen, laundry, process and similar high-pressure loads.

TABLE 3

for All Fuels and All Heating Systems.

Sizes: 4200 to 36000 sq. ft. Steam Ratings.—All-Riveted Construction.—Heating Boilers built for 15 lbs. w.s.p.—Power Boilers built for 100 lbs. w.s.p. A.S.M.E. Code

Number of Boiler		23	24	25	26	27	29	30	31	32	33	34	35	36	37
Horse Power		40	50	60	70	80	100	125	150	175	200	225	250	300	350
Steam Rating	sq. ft.	4200	5400	6400	7500	8500	11000	13500	16500	19000	22000	25000	28000	32000	36000
Hot Water Rating	sq. ft.	6700	8700	10500	12000	14500	17500	21500	26500	30500	35000	40000	45000	51000	58000
Heating Surface	sq. ft.	380	456	547	631	721	917	1147	1350	1571	1823	2012	2271	2760	3220
*Comp. Grate Area	sq. ft.	13.2	15.3	17.4	18.8	21.0	24.2	29.4	33.0	36.0	38.1	40.2	44.5	50.2	57.5
Diam. Vertical Shell	ft. in.	4-1	4-5	4-8	4-10	5-1	5-5	5-11	6-3	6-7	6-9	6-11	7-3	7-8	8-4
Length Boiler	ft. in.	9-4	10-6	10-9	12-2	12-3	13-7	13-11	15-1	15-4	16-2	17-5	18-2	18-4	19-6
Diam. Horiz. Shell	ft. in.	3-5	3-8	3-11	4-1	4-4	4-7	5-1	5-3	5-7	5-9	5-9	6-1	6-6	7-1
Height Overall	ft. in.	8-6	8-9	9-2	9-5	9-9	10-1	10-8	11-0	11-11	12-1	12-1	12-6	13-4	13-6
Water Line	ft. in.	7-1	7-4	7-8	7-11	8-2	8-5	8-11	9-1	9-10	10-1	10-1	10-5	11-0	11-10
Diameter Grate	inches	43	47	50	52	55	59	65	68	72	74	76	80	85	91
Space to Draw Tubes	ft. in.	4-8	5-7	5-6	6-10	6-10	7-9	7-8	8-6	8-4	8-10	10-0	10-5	10-0	11-0
Smoke Uptake	inches	12x24	12x31	13x36	13x42	13x48	14½x49	15½x58	17x58	18x62½	19x65	19x65	20x68	22x73	24x80
Stack Diameter	inches	22	22	24	24	26	28	30	32	34	34	38	40	48	48
Stack Height	feet	65	70	70	70	80	80	90	100	125	140	140	140	165	190
Approx. Covering Surface	sq. ft.	140	161	181	201	217	250	281	315	348	371	392	431	476	522
Approx. Shipping Weight	lbs.	7500	9500	10000	11500	12000	15200	18000	20000	23000	26000	29000	32000	37000	44000

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