

Monitor Boiler Company

1505 Race Street

Philadelphia, Pa.

Monco Fire Tube Steel Heating Boilers, Coil Steel Heating Boilers
and Water Heaters for Coal and Oil Burning

Monco Fire Tube Steel Heating Boilers are electrically welded and are designed according to the Code of the A. S. M. E. covering welded boilers and are constructed for a maximum working pressure of 15 lb. steam and 30 lb. water. All Boilers are constructed under the direct supervision of a Certified Insurance Inspector and are tested and stamped by this inspector before shipment.

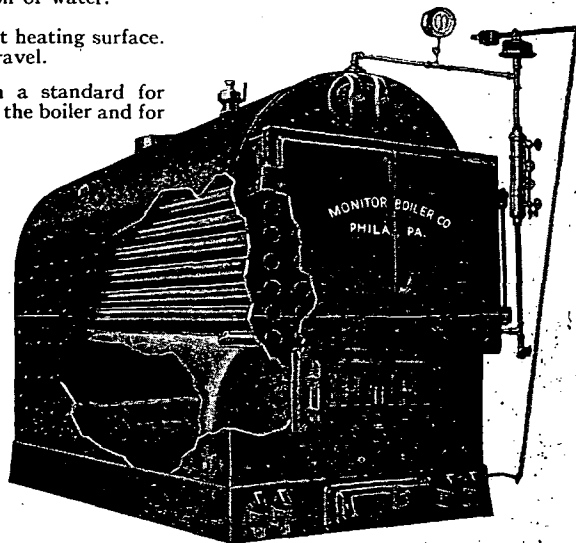
The following are some of the outstanding features:

- Arched self-cleaning crown sheet.
- Large combustion chamber.
- Unrestricted circulation of water.
- Low water line.
- Large amount of direct heating surface.
- Long three-pass fire travel.

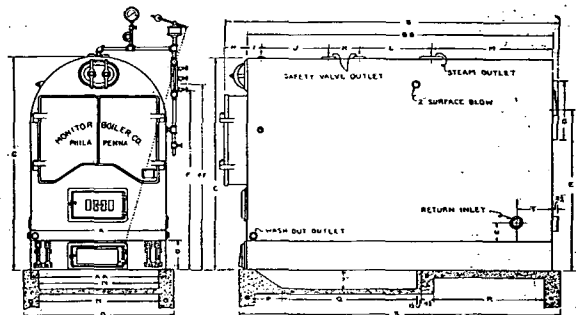
Ratings are based on a standard for steam of 2 lb. pressure at the boiler and for

water on a mean temperature of 180 deg. as the water leaves the boiler. Any Monco Fire Tube Steel Heating Boiler will carry its full-rated load in direct radiation or equivalent, if sufficient radiation is installed to heat the building to 70 deg. fahr.

The standard equipment for coal burning boilers includes all castings as shown on boiler, heavy steel base and shaking grates. Standard steam trimmings include damper regulator, steam gauge with syphon, water column with gauge cocks and water glass, safety valve, tube, brush and firing tools. No trimmings furnished with hot water boilers.



Monco Fire Tube Steel Heating Boiler for Coal and Oil Burning



For Dimensions and Specifications see following page

Coal and Oil Burning Boilers

Monco Fire Tube

Steam Specifications

Catalog Number		Steam Rating		Shipping Weight Approx.		Grate Area, Sq. Ft.	Heating Surface	One Boiler Coal or Oil				Two Boilers Coal or Oil				Coal or Oil			
Coal	Oil	Coal	Oil	Coal	Oil			Diam. Smoke Stack Inches	Min. Ht. Stack Feet	Diam. Smoke Stack Inches	Min. Ht. Stack Feet	Diam. Smoke Stack Inches	Min. Ht. Stack Feet	Size Steam Outlet	Size Return	Safety Valve No. Size	Covering Required Sq. Ft.		
3011	3012	1200	1375	2700	2050	6.5	18	16	50	24	22	55	5	2-2 1/2	1-1 1/4	50			
3021	3022	1450	1670	3100	2400	7.0	17	13	18	16	55	24	22	60	5	2-2 1/2	58		
3031	3032	1700	1950	3500	2750	7.5	18	16	55	24	22	65	6	2-3	1-1 1/4	65			
4011	4012	2000	2300	4300	3500	8.0	160	20	18	50	26	24	55	6	2-3	1-1 1/2	85		
4021	4022	2350	2700	5000	4050	9.5	193	20	18	55	26	24	60	6	2-3	1-1 1/2	95		
4031	4032	2700	3100	5600	4600	10.0	225	20	18	55	26	24	65	6	2-3	1-1 1/2	104		
4041	4042	3200	3675	6600	5400	12.0	264	22	20	55	28	26	60	6	2-3	1-2	105		
4051	4052	3800	4350	7500	6100	14.0	310	22	20	60	28	26	65	6	2-3	1-2	112		
4061	4062	4400	5000	8200	6600	16.0	356	22	20	65	28	26	70	6	2-3	1-2 1/2	120		
4711	4712	5000	5700	8450	6750	17.0	383	22	20	65	34	32	65	8	2-4	1-2 1/2	125		
4721	4722	5600	6300	9200	7350	18.5	439	24	22	65	34	32	70	8	2-4	1-3	135		
4731	4732	6200	7100	9920	7920	20.0	496	24	22	70	34	32	75	8	2-4	1-3	159		
5511	5512	7850	9000	12600	10350	22.5	604	26	24	65	36	34	75	8	2-4	1-3	174		
5521	5522	8700	9700	13500	11050	24.5	673	26	24	70	36	34	75	8	2-4	1-3	190		
5531	5532	9600	11000	14200	11550	26.5	742	26	24	75	36	34	80	8	2-4	1-3 1/2	194		
6511	6512	11000	12750	16600	13800	28.0	829	28	26	70	38	36	75	10	2-5	1-3 1/2	192		
6521	6522	12200	14000	17675	14675	30.0	925	28	26	75	38	36	80	10	2-5	2-2 1/2	210		
6531	6532	13500	15500	18400	15250	31.5	1020	28	26	80	38	36	85	10	2-5	2-3	228		
7411	7412	18000	20700	24000	20350	36.5	1332	30	28	80	42	40	85	10	2-5	2-3	235		
7421	7422	19800	22700	25000	21050	39.5	1471	30	28	80	42	40	85	10	2-5	2-3 1/2	250		
7431	7432	21700	25000	25400	21300	41.0	1610	30	28	85	42	40	90	10	2-5	2-3 1/2	265		

Height Water Line—see FF in table below. Height Boiler—see C in table below. Length Boiler—see BB in table below. Width Boiler—see A in table below. To figure ratings of hot water boilers add 60 per cent to steam rating.

Measurements of Monco Fire Tube Boilers

Number of Boiler	Width of Boiler	Width of Base	Length of Boiler Overall	Length of Boiler	Height of Boiler	Height of Base	Floor to Center of Smoke Connection	Floor to Bottom of Water Gauge	Height of Water Line	Diameter of Smoke Connection	Depth of Front Smoke Hood	Location of Water Column	Location Safety Valve	Distance Between Safety Valves	Distance from Safety Valve to Steam Outlet	Location Steam Outlet	Width of Ashpit	Width of Foundation	Foundation Dimensions	Foundation Dimensions	Foundation Dimensions	Length of Foundation	Location of Returns	Location of Returns
A	AA	B	BB	C	D	E	F	FF	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
301*	30	30	62	51 1/2	62 1/2	12 49/64	52	54 1/2	18	8	6	7 1/2	12	26	22	38	8	32	9 1/2	59 1/2	113 1/2	9	9	
302*	30	30	74	63 1/2	62 1/2	12 49/64	52	54 1/2	18	8	6	13 1/2	12	32	22	38	8	32	9 1/2	71 1/2	113 1/2	9	9	
303*	30	30	86	75 1/2	62 1/2	12 49/64	52	54 1/2	18	8	6	13 1/2	12	38	22	38	8	32	21 1/2	83 1/2	113 1/2	9	9	
401*	40	40	76 1/2	64	69	12 53/64	56 1/2	59	20	10	6	12	12	34	32	48	15	17	18	72	114 1/2	9	9	
402*	40	40	88 1/2	76	69	12 53/64	56 1/2	59	20	10	6	14	12	40	32	48	15	25	22	84	114 1/2	9	9	
403*	40	40	100 1/2	88	69	12 53/64	56 1/2	59	20	10	6	16	12	46	32	48	15	33	26	96	114 1/2	9	9	
404*	40	40	91 1/2	78	80	12 62/64	66 1/2	69	22	11	6	12	12	42	32	48	15	41	8	86	114 1/2	9	9	
405*	40	40	103 1/2	90	80	12 62/64	66 1/2	69	22	11	6	16	12	48	32	48	15	49	12	98	114 1/2	9	9	
406*	40	40	115 1/2	102	80	12 62/64	66 1/2	69	22	11	6	24	12	52	32	48	15	57	16	110	114 1/2	9	9	
471*	47	47	103 1/2	90	84	12 63/64	68 1/2	71	24	11	6	16	12	48	39	55	18	38	20	98	124 1/2	9 1/4	9 1/4	
472*	47	47	115 1/2	102	84	12 63/64	68 1/2	71	24	11	6	24	12	52	39	55	18	46	24	110	124 1/2	9 1/4	9 1/4	
473*	47	47	127 1/2	114	84	12 63/64	68 1/2	71	24	11	6	28	12	60	39	55	18	54	28	122	124 1/2	9 1/4	9 1/4	
551*	55	55	127 1/2	114	89	12 68/64	72 1/2	75	26	11 1/4	6	30	12	60	47	63	18	46	36	122	124 1/2	9 1/4	9 1/4	
552*	55	55	139 1/2	126	89	12 68/64	72 1/2	75	26	11 1/4	6	32	12	66	47	63	18	54	40	134	124 1/2	9 1/4	9 1/4	
553*	55	55	151 1/2	138	89	12 68/64	72 1/2	75	26	11 1/4	6	38	12	72	47	63	18	62	44	146	124 1/2	9 1/4	9 1/4	
651*	64 1/2	64 1/2	132 1/2	117 1/2	104	15 81/64	86 1/2	89	28	12 1/4	6	33 1/2	12	15	63	56 1/2	72 1/2	18	54	31 1/2	125 1/2	144 1/2	11 1/4	11 1/4
652*	64 1/2	64 1/2	144 1/2	129 1/2	104	15 81/64	86 1/2	89	28	12 1/4	6	36 1/2	12	12	57	56 1/2	72 1/2	18	62	35 1/2	137 1/2	144 1/2	11 1/4	11 1/4
653*	64 1/2	64 1/2	156 1/2	141 1/2	104	15 81/64	86 1/2	89	28	12 1/4	6	39 1/2	12	12	57	56 1/2	72 1/2	18	62	42 1/2	149 1/2	144 1/2	11 1/4	11 1/4
741*	73 1/2	73 1/2	144 1/2	129 1/2	122	15 89 1/64	99 1/2	102	30	12 1/4	6	36 1/2	12	12	57	65 1/2	81 1/2	18	62	35 1/2	137 1/2	144 1/2	10 3/4	10 3/4
742*	73 1/2	73 1/2	156 1/2	141 1/2	122	15 89 1/64	99 1/2	102	30	12 1/4	6	39 1/2	12	12	57	65 1/2	81 1/2	18	70	39 1/2	149 1/2	144 1/2	10 3/4	10 3/4
743*	73 1/2	73 1/2	168 1/2	153 1/2	122	15 89 1/64	99 1/2	102	30	12 1/4	6	42 1/2	15	15	60	65 1/2	81 1/2	18	70	51 1/2	161 1/2	144 1/2	10 3/4	10 3/4

*Numbers of all Monco Fire Tube Boilers, Coal and Oil Burning, begin with these three numerals.