

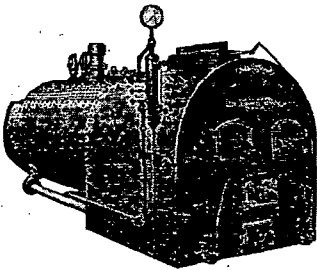
The Stanwood Corporation

Cincinnati, Ohio

**Manufacturers of Stanwood Smokeless and Horizontal
Return Tubular Boilers, for Heating and Power Service;
also Stanwood Welded Boilers for Heating.**

Write for detailed Catalogues

Stanwood Smokeless Boilers



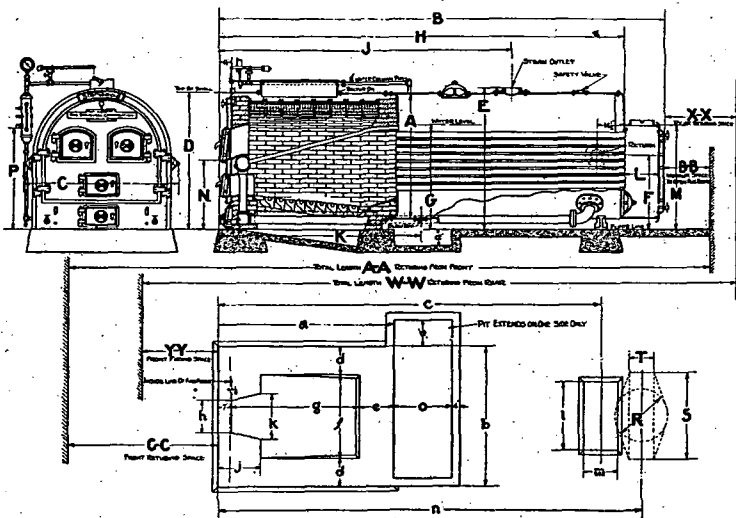
Low Water Line—An important feature of Stanwood Smokeless Boilers is the low water level from 48 to 75 in. depending upon size. This valuable characteristic for a heating boiler gives it wider application and is particularly appropriate where there is limited head room in the basement.

Shell cannot be bagged or burned nor can its circumferential seams be cracked. Nowhere are these surfaces exposed to the fire. Boiler has no firebox or mudlegs to fill up and corrode; no stay-bolts to rust or break off; no crown-sheet to drop if water is low. There is no internal flue that can collapse.

High over-all efficiency due to high combustion and the smokeless performance of a down-draft furnace; low stack temperature, secured through rapid circulation, no air leaks and a minimum radiation loss.

Primarily intended to burn bituminous coal with down-draft furnace. Can also be operated with oil, gas, or Stokers.

Stanwood Smokeless Boilers are built in sizes from (3500 to 31,000 sq. ft. steam radiation) 29 to 250 hp. for working pressures of 15, 100, 125 and 150 lbs. Can be built for higher pressure if desired.



STANWOOD SMOKELESS BOILERS—STEEL-RIVETED

General Specifications and Dimensions													
Number of Boiler		1608	610	612	614	616	618	620	622	624	626	628	
Heating Capacity—Steam..... Sq. Ft.		3500	5000	6000	8500	10000	12000	16000	18500	22000	26000	31000	
Heating Capacity—Water..... Sq. Ft.		5600	8000	9600	13600	16000	18000	22000	25000	30000	36000	42000	50000
Horsepower.....		29	40	50	70	80	100	125	150	175	210	250	
Diameter of Boiler Shell..... In.		44	54	54	60	66	72	78	84	90	90	90	90
Length of Boiler overall..... Ft.-In.		14-6	15-10	18-10	18-11	19-6	19-7	19-8	20-4	20-8	24-0	24-0	26-0
Width of Boiler overall, maximum..... In.		66	66	66	72	78	86	91	98	104	104	104	104
Heating Surface..... Sq. Ft.		308	422	518	692	814	990	1260	1500	1774	2106	2540	
Upper Grate Surface..... Sq. Ft.		10 1/2	14	17 1/2	20	22	25	27 1/2	33	33	39	42	48
Lower Grate Surface..... Sq. Ft.		7 1/2	12 1/2	15 3/4	18	20	22 1/2	25	30 1/4	33	36	39	45
Openings—Steam Outlet..... Diam. In.		3	6	6	6	8	8	8	8	8	10	10	10
Return Inlet..... Diam. In.		5	4	4	4	5	5	5	6	6	6	6	6
Safety Valve..... Diam. In.		2	2 1/2	3	3	3 1/2	3 1/2	4	4 1/2	2 1/2	2-3/2	2-3/2	2-4
Blow-off or Drain Pipe..... Diam. In.		1 1/2	2	2	2	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Height, Floor to top of Shell..... In.		64	64	64	67	73 1/4	79	85 1/4	91 1/4	97	97	97	97
Steam Outlet..... In.		61	66	66	69	73 1/4	82 1/4	87 1/4	93 1/4	99 1/4	99 1/4	99 1/4	99 1/4
Return Inlet..... In.		36 1/4	36 1/4	36 1/4	36 1/4	39 1/4	42 1/4	45 1/4	48 1/4	51 1/4	51 1/4	51 1/4	51 1/4
Water Level..... In.		48	49 1/4	49 1/4	51	57	61	67	70 1/4	75	75	75	75
Front of Foundation to Back Head..... Ft.-In.		13-1 1/2	14-2 1/2	17-2 1/2	17-2 1/2	17-9	17-9	17-9	18-3	18-3	21-5	22-11	
Steam Outlet..... Ft.-In.		9-4 1/2	10-11 1/2	12-3 1/2	12-3 1/2	12-10	12-10	12-10	13-4	13-4	16-4	17-4	
Blow-off..... Ft.-In.		6-5	7-1 1/4	8-1 1/4	8-1 1/4	9-1	9-1	9-1	9-7	9-7	11-1	10-7	
Depth of Smoke Box..... In.		15	16 1/2	16 1/2	17 1/2	18 1/4	19 1/2	20 1/2	22 1/2	26 1/4	27	33	
Height, Floor to Base of Stack Saddle..... In.		58 1/2	49 3/4	49 3/4	51 3/4	56	61 1/4	67 1/2	71 1/4	77	77	77	
Height, Floor to Upper Fire Door..... In.		37 1/4	37 1/4	37 1/4	36 3/4	39 3/4	39 3/4	42 1/2	41 1/2	47	47	47	
Stack Diam. and Height, minimum for 1 Boiler..... In.xFt.		20x55	22x55	24x60	28x65	30x70	32x70	34x80	36x80	38x90	42x100	44x100	
Breaching Diam. for 1 Boiler..... In.		22	24	26	28	30	32	34	36	38	42	44	
Stack Diam. and Height for 2 Boilers, minimum..... In.xFt.		30x65	32x65	32x70	34x70	36x75	42x80	46x80	50x100	54x100	60x100	64x100	
Breaching Diam. for 2 Boilers..... In.		32	34	34	38	38	46	52	54	54	58	64	
T-Sizes of Rectangular Stack Saddle..... In.		20x34	11x36	11x36	12x42	13x46	14x52	15x58	17x64	21x60	22x70	25x70	
No. of Straight Fire Brick..... Approx.		350	325	390	440	760	630	725	780	970	1000	1090	
Split Fire Brick..... Approx.		14	14	20	20	20	20	20	20	20	20	26	
No. 1 Arch Fire Brick..... Approx.		60	100	130	130	110	100	120	120	170	180	210	
Sil-o-cel Brick..... Approx.		75	50	60	75	100	150	150	250	300	325	375	
Common Red Brick..... Approx.		100	210	220	275	400	475	600	500	600	625	675	
Outside Insulated Covering..... Sq. Ft.		180	200	235	255	290	315	345	376	410	500	560	
Boilers in pairs, center to center..... In.		78	78	78	84	90	96	102	108	114	114	114	
Total Weight (approximate) No Stack or Brickwork..... Lbs.		9000	10700	11600	13900	17500	19400	24000	25700	28500	32000	36000	

Standard Foundation Dimensions and Space Required for Installing

Size	Foundation															Retubing From (See Note 1)						
	Dimensions—Feet and Inches															Front			Rear			
	a	b	c	d	e	f	g	h	i	k	l	m	n	o	A-A	B-B	C-C	W-W	X-X	Y-Y		
608	5-6	5-4	12-0	16	19	32	3-4	17	22 1/2	24	30	12	13-10 1/2	2-6	23-9	25	7-2	27-4	6-10	6-0		
610	6-3	5-8	13-3	15	18	38	4-2	17	22 1/2	24	30	12	14-11	2-6	25-5	29	7-2	28-8	6-10	6-0		
612	7-3	5-8	16-3	15	18	38	5-2	17	22 1/2	24	30	12	17-11	2-6	30-4	29	9-1	35-8	8-10	8-0		
614	7-3	6-2	16-3	15	18	44	5-2	17	22 1/2	24	30	12	17-11 1/2	2-6	30-4	32	8-9	35-8	8-9	8-0		
616	7-9	6-8	16-9	18	18	44	5-8	17	22 1/2	24	30	12	18-6	2-6	31-11	35	9-6	37-9	8-9	9-6		
618	7-9	7-3	16-9	18	18	51	5-8	17	22 1/2	24	36	18	18-6 1/2	2-6	32-3	38	9-6	37-8	8-7	9-6		
620	7-9	7-9	16-9	18	18	57	5-8	17	22 1/2	24	36	18	18-7	2-6	32-7	41	9-6	37-9	8-7	9-6		
622	8-3	8-3	17-3	18	18	63	6-2	40	22 1/2	48	36	18	19-2	2-6	34	44	10-0	38-8	8-4	10-0		
624	8-3	8-9	17-3	18	18	69	6-2	40	22 1/2	48	48	24	19-4	2-6	34-7	47	10-0	39-0	8-4	10-0		
626	9-3	8-9	20-6	18	18	69	7-2	40	22 1/2	48	48	24	22-10	2-6	40-5	47	12-6	46-4	11-4	11-0		
628	9-3	8-9	22-0	18	18	69	7-2	40	22 1/2	48	48	24	24-7	2-6	43-5	47	13-6	49-10	12-4	11-6		

Each of these boilers will carry its full rated load in direct cast iron radiation, or the equivalent thereof, provided sufficient radiation is installed to heat to the required temperature.

*Oval Ends used on 608 size only

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Handhole under tubes in rear head on 60
Trimming furnished with 15 lbs. Boilers

Water column with gage cocks (no column piping furnished), steam gage with siphon and cock; pop safety valves. Automatic Damper Regulator with lever, weight, chain and angle valve, wrench for header plugs. Firing tools include hoe, poker, slice bar, tube scraper and brush.

11) If space lengthwise is limited provision may be made for rear retubing by providing opening opposite rear end of boiler through which tubes may be withdrawn. Then dimension X-X may be reduced to B-B. Otherwise boiler may be retubed from front by allowing space C-C in front of boiler. Where installation limits are close or in question, consult our Engineering Department.