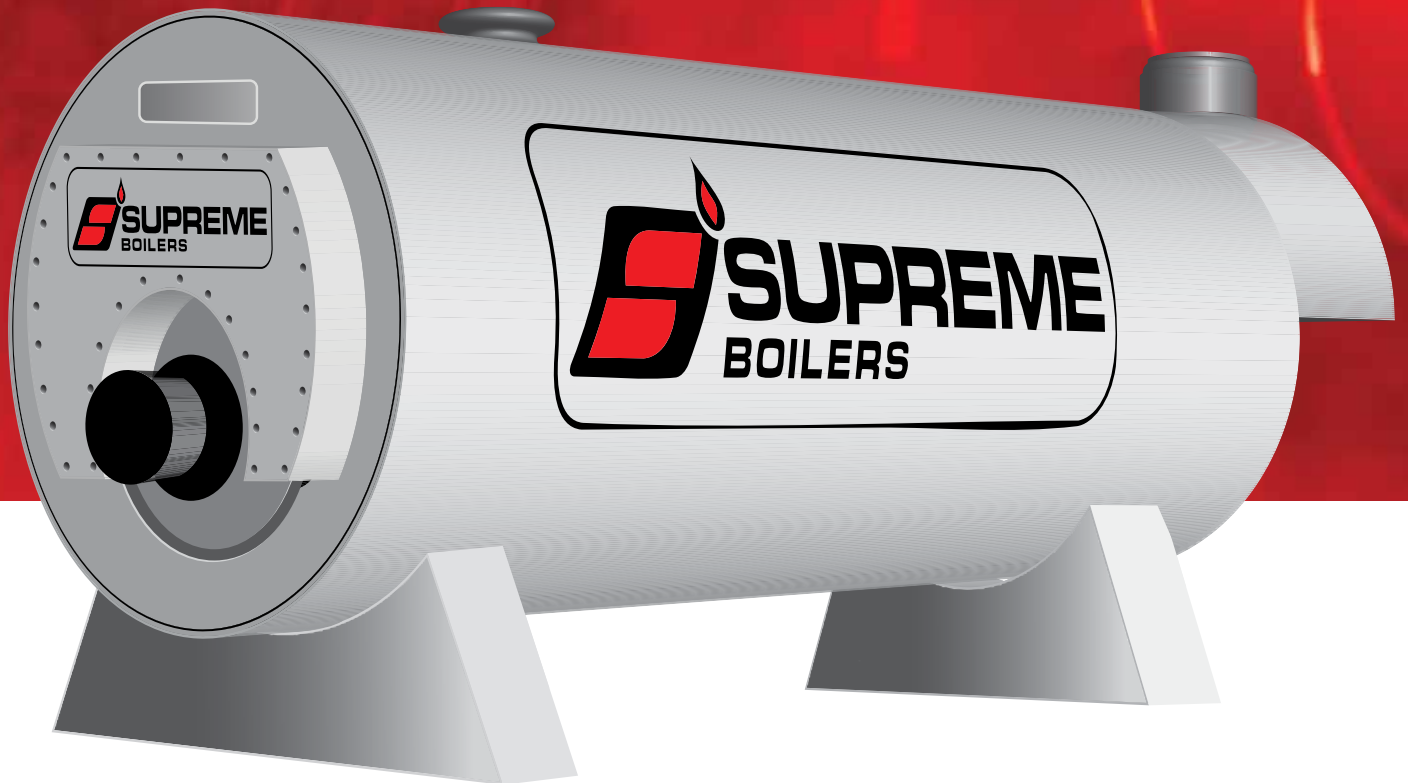
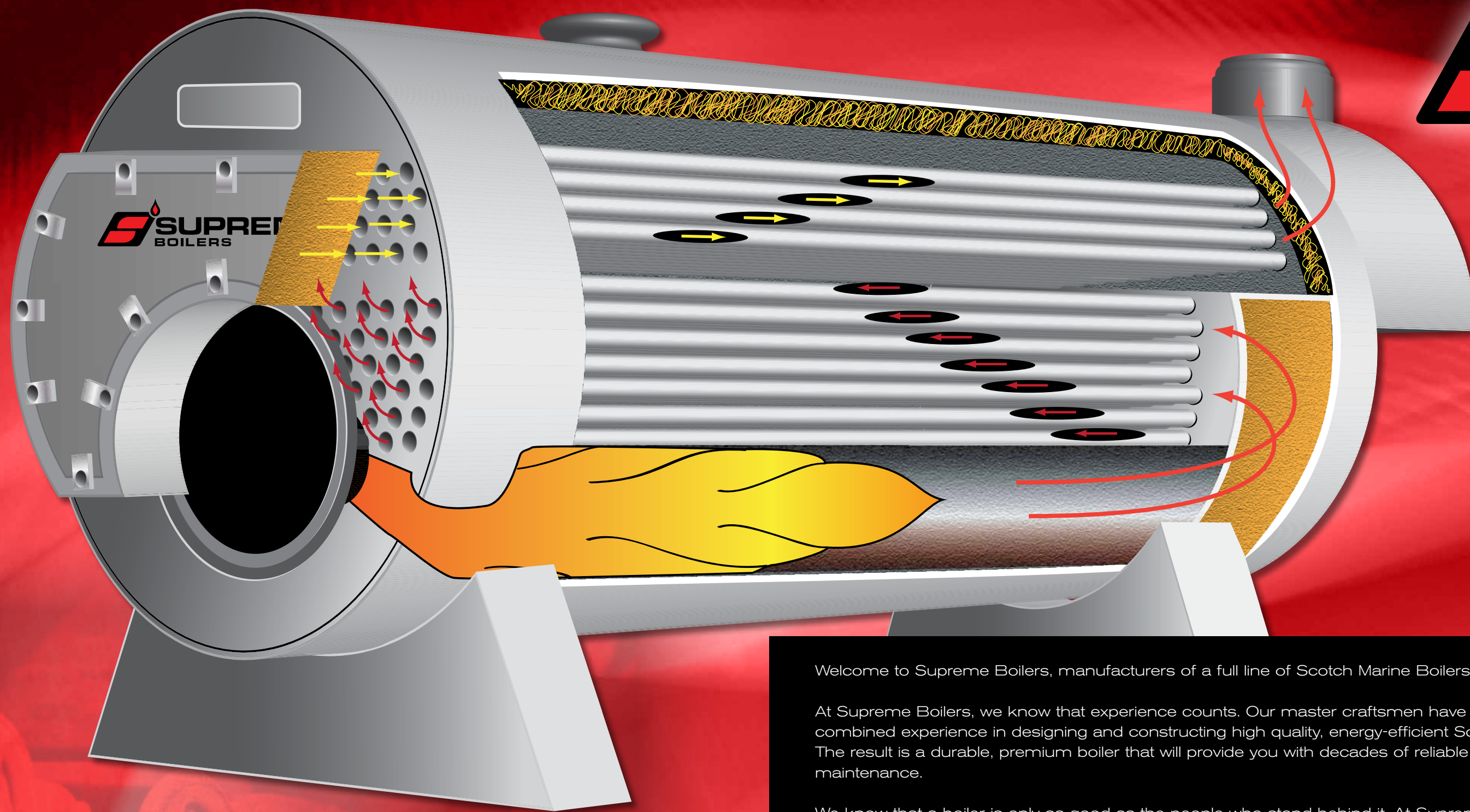




IT ALL BOILS DOWN TO QUALITY





Welcome to Supreme Boilers, manufacturers of a full line of Scotch Marine Boilers.

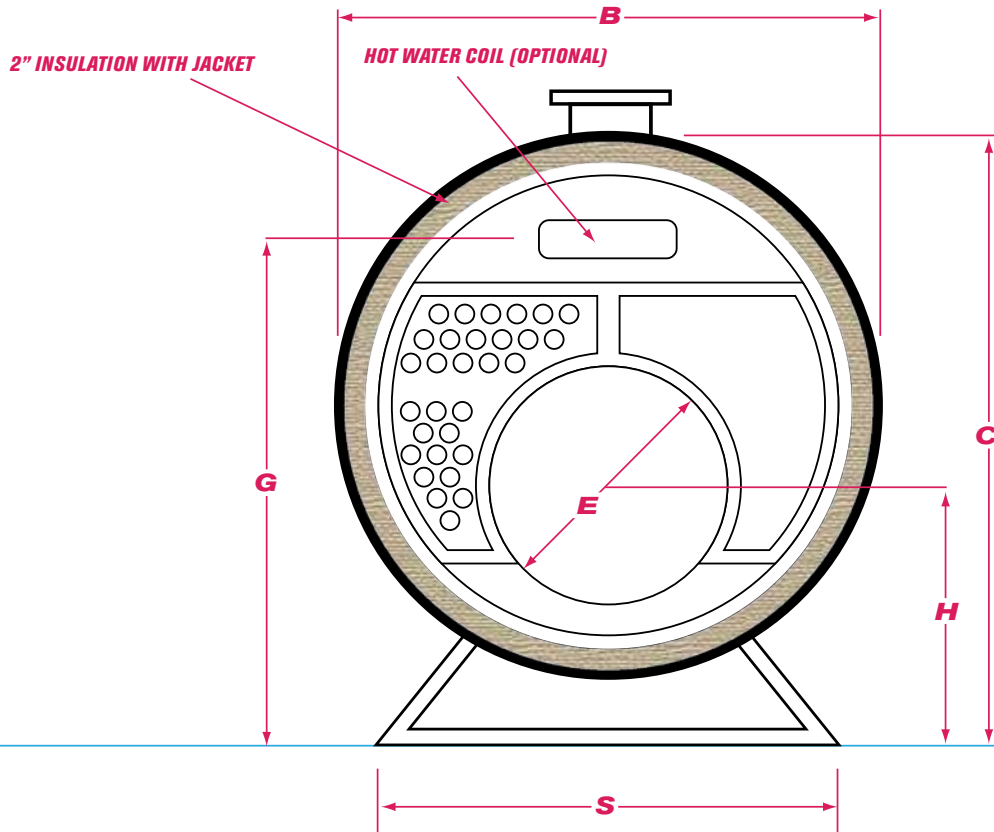
At Supreme Boilers, we know that experience counts. Our master craftsmen have over 90 years of combined experience in designing and constructing high quality, energy-efficient Scotch Marine Boilers. The result is a durable, premium boiler that will provide you with decades of reliable service with minimal maintenance.

We know that a boiler is only as good as the people who stand behind it. At Supreme Boilers, we have earned a sterling reputation for integrity, responsiveness, and attention to detail. We also offer expert guidance in helping you select the unit that best suits your needs.

Explore the numerous model options, complete with detailed specifications. Feel free to call our friendly and knowledgeable customer service department with any questions you may have.

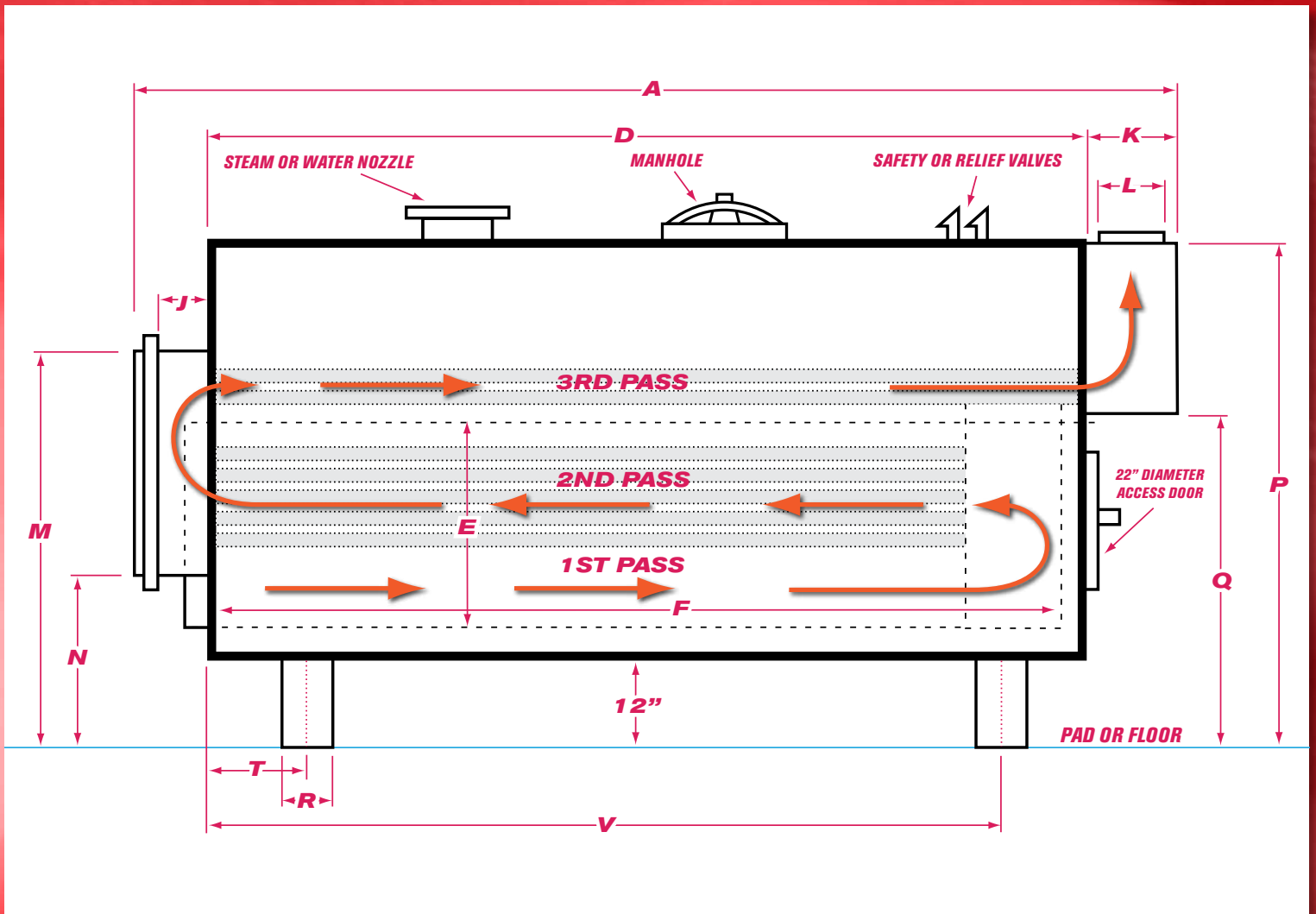
Supreme Boilers.

It all boils down to quality.



NOTABLE FEATURES

- All our Boilers are designed, built and inspected per ASME Codes (Sections IV, IX, IIA, IIC, and IID).
- Manholes are 12" x 16" and are provided (one in each boiler) when required by code.
- Safety or Relief Valves: Sizes and quantities are determined by ASME Code.
- All boilers are provided with locking dampers in the vent outlets.
- Standard trims (safety or relief valves, steam gauge, water column, gauge glass, and tricocks) are shipped loose.
- 22" diameter rear door Access Opening with Refractory Lined Door and Observation Port are provided as standard supply.
- The height of the Saddles (12") is a minimum code requirement.
- Dry pans are not needed on our boilers, but can be installed on request.



Specifications subject to change without notice. Manufacturer reserves the right to change specifications at any time without incurring obligation for equipment previously or subsequently sold.

Series 5 D1, D2, D3 RATINGS, DATA AND DIMENSIONS

BOILER MODEL - SIZE			D1-15-5	D1-20-5	D1-25-5	D1-30-5	D2-20-5	D2-30-5	D2-40-5	D2-50-5	D2-60-5	D2-70-5	D2-80-5	D3-40-5	D3-50-5	D3-60-5	D3-70-5	D3-80-5	D3-90-5	D3-100-5	D3-125-5	D3-150-5	D3-165-5
GROSS OUTPUT	Horsepower	H.P.	15	20	25	30	20	30	40	50	60	70	80	40	50	60	70	80	90	100	125	150	165
	Steam Radiation	SQ. FT.	2,100	2,800	3,500	4,200	2,800	4,200	5,600	7,000	8,400	9,800	11,200	5,600	7,000	8,400	9,800	11,200	12,600	14,000	17,500	21,000	23,100
	Steam Thermal	MBH	503	670	837	1,004	670	1,005	1,339	1,673	2,008	2,344	2,679	1,339	1,673	2,008	2,344	2,677	3,014	3,348	4,185	5,022	5,525
	Steam per hr. from & at 212°F	LBS/HR.	517.5	690	862.5	1,035	690	1,035	1,380	1,725	2,070	2,415	2,760	1,380	1,725	2,070	2,415	2,760	3,105	3,450	4,313	5,175	5,693
NET RATING	Steam Radiation	SQ. FT.	1,571	2,094	2,615	3,135	2,095	3,136	4,211	5,377	6,498	7,579	8,662	4,211	5,376	6,499	7,580	8,663	9,747	10,831	13,535	16,243	17,867
	Steam Thermal	MBH	390	520	650	780	520	780	1,038	1,300	1,560	1,818	2,078	1,038	1,300	1,560	1,818	2,078	2,339	2,598	3,249	3,899	4,288
FIRING RATE	Light Oil	GPH	4.5	6	7.5	9	6	9	12	15	18	21	24	12	15	18	21	24	27	30	37.5	45	49.5
	Heavy Oil	GPH	4.2	5.6	7	8.4	5.7	8.5	11.2	13.9	16.8	19.6	22.3	11.2	13.9	16.8	19.6	22.3	25.1	27.9	34.9	41.8	45.9
	Gas	MBH	630	840	1,052	1,257	840	1,257	1,676	2,094	2,510	2,930	3,350	1,676	2,094	2,510	2,930	3,350	3,787	4,185	5,232	6,280	6,908
Heating Surface (fireside)		SQ. FT.	75	100	125	150	100	150	200	250	300	350	400	200	250	300	350	400	450	500	625	750	825
Furnace Volume		CU. FT.	10.436	12.868	15.299	17.752	16.865	21.230	27.083	32.241	37.846	43.203	48.229	32.547	37.677	42.781	47.911	53.337	58.628	64.027	77.135	84.388	87.665
A	Overall Length	FT.-IN.	5-11	7-1 ¼	8-3 ½	9-5 ¾	5-11 ¾	7-3 ¾	9-4	10-11 ½	12-10 11/16	14-7 15/16	16-2 15/16	6-11 ¾	7-11 11/16	8-11 5/16	9-11 ½	11-0 ½	12-0 7/16	13-1	15-7 ½	17-¾	17-8
B	Overall Width (over 2 insulation)	IN.	43 ¾	43 ¾	43 ¾	43 ¾	53 ¾	53 ¾	53 ¾	53 ¾	53 ¾	53 ¾	53 ¾	64	64	64	64	64	64	64	64	64	64
C	Overall Height	IN.	51 ½	51 ½	51 ½	51 ½	63 ¾	63 ¾	63 ¾	63 ¾	63 ¾	63 ¾	63 ¾	72	72	72	72	72	72	72	72	72	72
D	Shell Length	FT.-IN.	3-11 5/8	5-1 7/8	6-4 3/8	7-6 1/2	4-0	5-4 1/2	7-2 3/8	8-10 3/8	10-7 3/16	12-3 3/16	13-10 3/16	5-0 3/8	6-0 3/16	7-0 3/16	8-0 3/8	9-0 3/4	10-1 1/16	11-1 3/8	13-8 3/8	15-1	15-8 5/8
E	Furnace Diameter	IN.	20	20	20	20	24 ¾	24 ¾	24 ¾	24 ¾	24 ¾	24 ¾	24 ¾	31 ¾	31 ¾	31 ¾	31 ¾	31 ¾	31 ¾	31 ¾	31 ¾	31 ¾	31 ¾
F	Furnace Length	IN.	40 3/16	54 7/16	68 11/16	83 3/16	40 3/16	57 1/16	79 1/16	98 11/16	119 7/16	140 1/8	159 1/8	52 5/16	64 7/16	76 3/16	88 11/16	101 5/16	113 3/8	126 3/16	156 11/16	173 3/16	181 3/16
G	Normal Water Line *	IN.	43 7/16	43 7/16	43 7/16	43 7/16	53 1/4	53 1/4	53 1/4	53 1/4	53 1/4	53 1/4	53 1/4	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16
H	Height - C.L. of Furnace	IN.	25 1/8	25 1/8	25 1/8	25 1/8	27 7/8	27 7/8	27 7/8	27 7/8	27 7/8	27 7/8	27 7/8	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16
J	Depth-Reversing Chamber	IN.	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
K	Depth-Smoke Hood	IN.	13	13	13	13	13	13	15	15	17	17	17	15	15	17	17	17	19	19	21	23	23
L	Vent Outlet Dia.	IN.	10	10	10	10	10	10	12	12	14	14	14	12	12	14	14	14	16	16	18	20	20
M	Top - Front Rev. Chamber	IN.	41 7/8	41 7/8	41 7/8	41 7/8	50	50	50	50	50	50	50	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8
N	Bottom - Front Rev. Chamber	IN.	23 3/8	23 3/8	23 3/8	23 3/8	26 3/8	26 3/8	26 3/8	26 3/8	26 3/8	26 3/8	26 3/8	31	31	31	31	31	31	31	31	31	31
P	Top - Smoke Hood	IN.	50 1/8	50 1/8	50 1/8	50 1/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	71	71	71	71	71	71	71	71	71	71
Q	Bottom - Smoke Hood	IN.	36 1/2	36 1/2	36 1/2	36 1/2	42 3/8	42 3/8	42 3/8	42 3/8	42 3/8	42 3/8	42 3/8	51	51	51	51	51	51	51	51	51	51
R	Saddle Width	IN.	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
S	Saddle Length	IN.	28	28	28	28	36 3/4	36 3/4	36 3/4	36 3/4	36 3/4	36 3/4	36 3/4	47	47	47	47	47	47	47	47	47	47
T	C.L. Front Saddle	IN.	12	12	12	12	12 1/2	12 1/2	13	13	13 1/2	14	14 1/2	13	13	13	13	13	13	13	13	13	13
V	C.L. Rear Saddle	IN.	22	39	53	67	32	48 1/2	70 3/8	90 1/8	111 1/4	131 1/2	150	37	49	61	73	85	98	110	141	158	165
	Steam Outlet Size	IN.	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8
	Return Size	IN.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Heat Release Rate		BTUs/FT3/HR	60,368	65,278	68,632	70,978	49,807	59,350	62,032	65,134	66,586	68,051	69,669	51,618	55,727	58,905	61,364	62,996	64,474	65,597	68,062	74,655	79,051
Steam Disengaging Area at N.W.L.		SQ. FT.	9.443	12.442	15.44	18.465	12.44	16.976	23.059	28.42	34.245	39.812	45.034	17.817	21.508	25.180	28.870	32.774	36.581	40.465	49.895	55.113	58.398
Steam Cubic Space Over N.W.L.		CU. FT.	4.047	5.332	6.617	7.913	7.302	9.964	13.534	16.681	20.099	23.266	26.433	10.356	12.501	14.636	16.781	19.050	21.262	23.52	29.001	32.034	33.404
Steam Space from normal w.l. to inside shell		IN.	7 3/8	7 3/8	7 3/8	7 3/8	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16
Water Content to N.W. Line		GAL.	95	134	177	213	152	221	314	396	484	569	649	295	367	439	511	587	661	737	921	990	1,034
Dry Weight (Approx.)		LBS.	2,186	2,316	2,645	2,978	3,105	3,728	4,558	5,290	6,090	6,850	7,566	4,755	5,370	5,975	6,590	7,235	7,865	8,510	10,070	11,400	11,800
Operating Weight (Approx.)		LBS.	2,978	3,433	4,120	4,753	4,370	5,565	7,170	8,582	10,122	11,588	12,967	7,215	8,430	9,635	10,850	12,130	13,375	14,655	17,745	19,650	20,415

* Normal water lines shown here are without a hot water Coil. For hot water coil, add 1 3/4".

Series 5 D4, D5 RATINGS, DATA AND DIMENSIONS

BOILER MODEL - SIZE			D4-80-5	D4-90-5	D4-100-5	D4-125-5	D4-150-5	D4-175-5	D4-200-5	D4-250-5	D4-300-5	D4-325-5	D5-150-5	D5-175-5	D5-200-5	D5-250-5	D5-300-5	D5-350-5	D5-400-5	D5-450-5	D5-500-5	D5-600-5
GROSS OUTPUT	Horsepower	H.P.	80	90	100	125	150	175	200	250	300	325	150	175	200	250	300	350	400	450	500	600
	Steam Radiation	SQ. FT.	11,200	12,600	14,000	17,500	21,000	24,500	28,000	35,000	42,000	45,500	21,000	24,500	28,000	35,000	42,000	49,000	56,000	63,000	70,000	84,000
	Steam Thermal	MBH	2,697	3,014	3,348	4,184	5,021	5,857	6,695	8,367	10,043	10,880	5,021	5,857	6,695	8,368	10,042	11,716	13,390	15,064	16,738	20,085
	Steam per hr. from & at 212°F	LBS/HR.	2,760	3,105	3,450	4,313	5,175	6,037	6,900	8,625	10,350	11,212	5,175	6,037	6,900	8,625	10,350	12,075	13,800	15,525	17,250	20,700
NET RATING	Steam Radiation	SQ. FT.	8,664	9,746	10,832	13,535	16,242	18,951	21,658	27,074	32,489	35,196	16,243	18,949	21,657	27,075	32,489	37,899	43,314	48,734	54,149	64,974
	Steam Thermal	MBH	2,080	2,338	2,601	3,249	3,898	4,549	5,198	6,499	7,797	8,447	3,879	4,547	5,199	6,498	7,797	9,096	10,396	11,695	12,995	15,594
FIRING RATE	Light Oil	GPH	24	27	30	37.5	45	52.5	60	75	90	97.5	45	52.5	60	75	90	105	120	135	150	180
	Heavy Oil	GPH	22.4	25.2	27.8	34.8	41.8	48.8	55.8	69.7	83.9	90.9	41.8	48.8	55.8	69.7	83.7	97.6	111.6	125.6	139.5	167.4
	Gas	MBH	3,350	3,767	4,185	5,232	6,280	7,325	8,370	10,465	12,555	13,600	6,280	7,325	8,370	10,465	12,555	14,645	16,740	18,830	20,920	25,110
Heating Surface (fireside)		SQ. FT.	400	450	500	625	750	875	1,000	1,250	1,500	1,625	750	875	1,000	1,250	1,500	1,750	2,000	2,250	2,500	3,000
Furnace Volume		CU. FT.	61.944	67.593	73.336	88.200	103.806	118.062	133.157	163.715	166.108	171.216	103.289	114.563	127.334	152.304	177.188	201.514	223.350	246.770	265.269	317.067
A	Overall Length	FT.-IN.	8-8 ½	9-5 ¾	10-1 ½	11-11 ¾	13-8 ¾	15-6 ¾	17-3 ¾	20-8 ¾	21-3 ¾	21-10 ¾	10-6	11-6 ¼	12-8 ¾	15-3 ¾	17--10	20--2 ½	22-5 ¾	24--7 ½	26-8 ¾	31-9 ½
B	Overall Width (over 2 insulation)	IN.	77 ¾	77 ¾	77 ¾	77 ¾	77 ¾	77 ¾	77 ¾	77 ¾	77 ¾	77 ¾	89 ½	89 ½	89 ½	89 ½	89 ½	89 ½	89 ½	89 ½	89 ½	89 ½
C	Overall Height	IN.	85 ¾	85 ¾	85 ¾	85 ¾	85 ¾	85 ¾	85 ¾	85 ¾	85 ¾	85 ¾	97 ½	97 ½	97 ½	97 ½	97 ½	97 ½	97 ½	97 ½	97 ½	97 ½
D	Shell Length	FT.-IN.	6-0 ¾	6-7 ¾	7-3 ½	8-11 ¾	10-8 ¾	12-4 ¾	14-1 ¾	17-6 ¾	17-9 ¾	18-4 ¾	7--6	8-6 ¼	9-8 ¾	11-11 ¾	14-3 ¾	16-7 ½	18-7 ¾	20-9 ½	22-8 ¾	27-6 ½
E	Furnace Diameter	IN.	41	41	41	41	41	41	41	41	41	41	45 ¾	45 ¾	45 ¾	45 ¾	45 ¾	45 ¾	45 ¾	45 ¾	45 ¾	45 ¾
F	Furnace Length	IN.	64 ¾	72	79 ¾	99 ¾	120 ¾	140 ¾	161 ¾	202 ¾	206 ¾	213 ¾	82 ¾	94 ¾	108 ½	136 ¼	163 ¾	191 ¾	216	241 ¾	265	322 ¾
G	Normal Water Line *	IN.	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	82 ¾	82 ¾	82 ¾	82 ¾	82 ¾	82 ¾	82 ¾	82 ¾	82 ¾	82 ¾
H	Height - C.L. of Furnace	IN.	36 ½	36 ½	36 ½	36 ½	36 ½	36 ½	36 ½	36 ½	36 ½	36 ½	39	39	39	39	39	39	39	39	39	39
J	Depth-Reversing Chamber	IN.	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	12	12
K	Depth-Smoke Hood	IN.	17	19	19	21	21	23	23	23	27	27	23	23	23	23	30	30	33	33	33	36
L	Vent Outlet Dia.	IN.	14	16	16	18	18	20	20	20	24	24	20	20	20	20	27	27	30	30	30	33
M	Top - Front Rev. Chamber	IN.	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	71 ¾	81 ¾	81 ¾	81 ¾	81 ¾	81 ¾	81 ¾	81 ¾	81 ¾	81 ¾	81 ¾
N	Bottom - Front Rev. Chamber	IN.	35 ½	35 ½	35 ½	35 ½	35 ½	35 ½	35 ½	35 ½	35 ½	35 ½	36 ¾	36 ¾	36 ¾	36 ¾	36 ¾	36 ¾	36 ¾	36 ¾	36 ¾	36 ¾
P	Top - Smoke Hood	IN.	84 ¾	84 ¾	84 ¾	84 ¾	84 ¾	84 ¾	84 ¾	84 ¾	84 ¾	84 ¾	96	96	96	96	96	96	96	96	96	96
Q	Bottom - Smoke Hood	IN.	60 ¾	60 ¾	60 ¾	60 ¾	60 ¾	60 ¾	60 ¾	60 ¾	60 ¾	60 ¾	68 ½	68 ½	68 ½	68 ½	68 ½	68 ½	68 ½	68 ½	68 ½	68 ½
R	Saddle Width	IN.	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
S	Saddle Length	IN.	61 ½	61 ½	61 ½	61 ½	61 ½	61 ½	61 ½	61 ½	61 ½	61 ½	74	74	74	74	74	74	74	74	74	74
T	C.L. Front Saddle	IN.	15	15	15	15	15	15	15	15	18	18	17	17	17	17	17	17	17	17	17	17
V	C.L. Rear Saddle	IN.	46	54	68	85	104	123	144	185	188	195	64 ¼	76 ½	90 ¾	118 ¾	145 ¾	173 ¾	197 ¾	223 ¾	246 ¾	304 ¾
	Steam Outlet Size	IN.	6	8	8	8	8	8	8	8	10	10	8	8	8	8	10	10	10	10	10	10
	Return Size	IN.	3	3	3	3	3	3	3	3	4	4	3	3	3	3	4	4	4	4	4	4
Heat Release Rate		BTUs/FT3/HR	54,243	55,923	57,271	59,524	60,690	62,255	63,083	64,136	75,854	79,724	60,994	64,157	65,968	68,941	71,111	72,948	75,218	76,590	79,165	79,479
Steam Disengaging Area at N.W.L.		SQ. FT.	27.214	30.216	33.267	41.166	49.458	57.332	65.402	81.741	83.021	85.752	38.430	43.842	49.971	62.229	74.238	86.800	97.457	108.886	119.101	144.666
Steam Cubic Space Over N.W.L.		CU. FT.	21.302	23.651	26.039	32.222	38.713	33.876	51.193	63.982	64.983	67.121	32.060	36.574	41.687	51.913	61.932	72.411	81.301	90.836	99.358	120.685
Steam Space from normal w.l. to inside shell		IN.	13 ½	13 ½	13 ½	13 ½	13 ½	13 ½	13 ½	13 ½	13 ½	13 ½	14 ¾	14 ¾	14 ¾	14 ¾	14 ¾	14 ¾	14 ¾	14 ¾	14 ¾	14 ¾
Water Content to N.W. Line		GAL.	494	561	625	790	964	1,129	1,298	1,640	1,667	1,725	760	935	1,095	1,420	1,735	2,065	2,345	2,645	2,915	3,585
Dry Weight (Approx.)		LBS.	8,500	9,060	9,630	11,100	12,645	14,450	16,000	19,360	20,810	21,380	14,295	15,670	17,230	20,510	23,825	28,355	31,275	34,400	38,615	45,940
Operating Weight (Approx.)		LBS.	12,650	13,735	14,840	17,685	20,680	23,860	26,815	33,025	34,700	35,750	20,625	23,460	26,352	32,340	38,280	45,560	50,810	56,435	62,895	75,800

* Normal water lines shown here are without a hot water Coil. For hot water coil, add 1 ¾".

Series 5 D6, D7

RATINGS, DATA AND DIMENSIONS

BOILER MODEL - SIZE			D6-250-5	D6-300-5	D6-350-5	D6-400-5	D6-450-5	D6-500-5	D6-600-5	D6-700-5	D6-800-5	D7-400-5	D7-450-5	D7-500-5	D7-600-5	D7-700-5	D7-800-5	D7-900-5	D7-1000-5
GROSS OUTPUT	Horsepower	H.P.	250	300	350	400	450	500	600	700	800	400	450	500	600	700	800	900	1,000
	Steam Radiation	SQ. FT.	35,000	42,000	49,000	56,000	63,000	70,000	84,000	98,000	112,000	56,000	63,000	70,000	84,000	98,000	112,000	126,000	140,000
	Steam Thermal	MBH	8,367	10,043	11,716	13,390	15,064	16,738	20,085	23,432	26,780	13,390	15,064	16,738	20,085	23,432	26,780	30,128	33,475
	Steam per hr. from & at 212°F	LBS/HR.	8,625	10,350	12,075	13,800	15,525	17,250	20,700	24,150	27,600	13,800	15,525	17,250	20,700	24,150	27,600	31,050	34,500
NET RATING	Steam Radiation	SQ. FT.	27,074	32,489	37,904	43,315	48,735	54,150	64,975	75,805	86,634	43,314	48,734	54,149	64,974	75,805	86,635	97,464	108,293
	Steam Thermal	MBH	6,499	7,797	9,096	10,396	11,695	12,995	15,594	18,193	20,793	10,396	11,695	12,995	15,594	18,194	20,794	23,393	25,988
FIRING RATE	Light Oil	GPH	75	90	105	120	135	150	180	210	240	120	135	150	180	210	240	270	300
	Heavy Oil	GPH	69.7	83.7	97.6	111.6	125.6	139.5	167.4	195.3	223.3	111.6	125.6	139.5	167.4	195.3	223.2	251.1	278.9
	Gas	MBH	10,465	12,555	14,645	16,740	18,830	20,920	25,105	29,290	33,475	16,740	18,830	20,920	25,110	31,237	35,699	40,162	44,624
Heating Surface (fireside)		SQ. FT.	1,250	1,500	1,750	2,000	2,250	2,500	3,000	3,500	4,000	2,000	2,250	2,500	3,000	3,500	4,000	4,500	5,000
Furnace Volume		CU. FT.	157.582	180.176	203.524	226.724	249.858	272.832	318.779	367.707	420.229	238.640	260.811	283.456	328.938	373.168	421.674	474.172	526.768
A	Overall Length	FT.-IN.	12-4 3/8	14-7 1/8	16-2 7/8	18-1 1/2	19-10 3/8	21-6 1/4	25-0 1/2	28-11 7/8	32-9 3/16	15-4 1/2	16-7 1/2	17-10 3/8	20-7 1/4	23-3 1/8	25-11 1/8	29-0	32-2
B	Overall Width (over 2 insulation)	IN.	101 1/2	101 1/2	101 1/2	101 1/2	101 1/2	101 1/2	101 1/2	101 1/2	101 1/2	113 3/4	113 3/4	113 3/4	113 3/4	113 3/4	113 3/4	113 3/4	113 3/4
C	Overall Height	IN.	111 1/2	111 1/2	111 1/2	111 1/2	111 1/2	111 1/2	111 1/2	111 1/2	111 1/2	121	121	121	121	121	121	121	121
D	Shell Length	FT.-IN.	9-3 3/4	10-10 3/4	12-6 1/2	14-2 1/2	15-11 1/4	17-6 7/8	20-10 1/8	24-6 1/2	28-3 3/16	11-2 1/8	12-5 1/8	13-8	16-1 1/8	18-7 3/4	21-3 3/4	24-4 3/8	27-3 3/8
E	Furnace Diameter	IN.	51 3/4	51 3/4	51 3/4	51 3/4	51 3/4	51 3/4	51 3/4	51 3/4	51 3/4	58 3/4	58 3/4	58 3/4	58 3/4	58 3/4	58 3/4	58 3/4	58 3/4
F	Furnace Length	IN.	103 3/8	123 1/8	142 7/8	162 1/2	183 3/8	203 1/4	242 1/2	286 7/8	332 3/16	126 1/2	141 1/2	156 3/8	186 1/4	216 1/8	248 1/8	285	320
G	Normal Water Line *	IN.	90 1/2	90 1/2	90 1/2	90 1/2	90 1/2	90 1/2	90 1/2	90 1/2	90 1/2	100 3/4	100 3/4	100 3/4	100 3/4	100 3/4	100 3/4	100 3/4	100 3/4
H	Height - C.L. of Furnace	IN.	42	42	42	42	42	42	42	42	42	45 1/2	45 1/2	45 1/2	45 1/2	45 1/2	45 1/2	45 1/2	45 1/2
J	Depth-Reversing Chamber	IN.	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
K	Depth-Smoke Hood	IN.	23	30	30	33	33	33	36	39	39	33	33	33	36	39	39	41	41
L	Vent Outlet Dia.	IN.	20	27	27	30	30	30	33	36	36	30	30	30	33	36	36	38	38
M	Top - Front Rev. Chamber	IN.	89 15/16	89 15/16	89 15/16	89 15/16	89 15/16	89 15/16	89 15/16	89 15/16	89 15/16	100	100	100	100	100	100	100	100
N	Bottom - Front Rev. Chamber	IN.	34 3/16	34 3/16	34 3/16	34 3/16	34 3/16	34 3/16	34 3/16	34 3/16	34 3/16	40 3/16	40 3/16	40 3/16	40 3/16	40 3/16	40 3/16	40 3/16	40 3/16
P	Top - Smoke Hood	IN.	107 3/4	107 3/4	107 3/4	107 3/4	107 3/4	107 3/4	107 3/4	107 3/4	107 3/4	118 3/16	118 3/16	118 3/16	118 3/16	118 3/16	118 3/16	118 3/16	118 3/16
Q	Bottom - Smoke Hood	IN.	74	74	74	74	74	74	74	74	74	83 3/8	83 3/8	83 3/8	83 3/8	83 3/8	83 3/8	83 3/8	83 3/8
R	Saddle Width	IN.	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12
S	Saddle Length	IN.	86	86	86	86	86	86	86	86	86	98	98	98	98	98	98	98	98
T	C.L. Front Saddle	IN.	19	19	19	19	19	19	19	19	19	20	20	20	20	20	20	20	20
V	C.L. Rear Saddle	IN.	80 1/4	99 3/4	119 1/2	139 3/8	160 1/4	179 7/8	219 1/8	263 1/2	308 7/8	112 1/8	127 1/8	142	171 1/8	201 3/4	233 3/4	270 3/8	305 3/8
	Steam Outlet Size	IN.	8	10	10	10	10	10	10	12	12	10	10	10	10	12	12	12	12
	Return Size	IN.	3	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6
Heat Release Rate		BTUs/FT3/HR	66,632	69,932	72,227	74,099	75,643	76,970	79,052	79,955	79,956	70,399	72,466	74,086	76,610	78,785	79,682	79,718	79,731
Steam Disengaging Area at N.W.L.		SQ. FT.	57.112	67.400	77.820	88.174	99.320	109.674	130.382	153.794	177.701	75.275	83.886	92.426	109.576	126.727	145.097	166.266	186.358
Steam Cubic Space Over N.W.L.		CU. FT.	61.395	72.455	83.657	94.787	106.769	117.899	140.160	165.328	191.028	83.894	93.491	103.008	122.122	141.236	161.710	185.302	207.695
Steam Space from normal w.l. to inside shell		IN.	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	19 3/4	19 3/4	19 3/4	19 3/4	19 3/4	19 3/4	19 3/4	19 3/4
Water Content to N.W. Line		GAL.	1,396	1,669	1,946	2,221	2,517	2,792	3,341	3,963	4,597	2,050	2,307	2,561	3,072	3,583	4,130	4,761	5,359
Dry Weight (Approx.)		LBS.	21,194	24,495	27,456	30,440	35,138	38,207	44,387	53,114	60,496	30,186	33,414	36,214	42,403	48,805	54,949	64,028	71,006
Operating Weight (Approx.)		LBS.	32,823	38,398	43,667	48,941	56,105	61,465	72,218	86,126	98,790	47,263	52,632	57,548	67,993	78,652	89,352	103,688	115,647

* Normal water lines shown here are without a hot water Coil. For hot water coil, add 1 3/4".

Series 4 D2, D3, D4 RATINGS, DATA AND DIMENSIONS

BOILER MODEL - SIZE			D 2-25-4	D2-35-4	D2-45-4	D2-55-4	D2-65-4	D2-75-4	D2-85-4	D3-50-4	D3-60-4	D3-70-4	D3-80-4	D3-90-4	D3-100-4	D3-110-4	D3-135-4	D4-95-4	D4-110-4	D4-125-4	D4-150-4	D4-175-4	D4-200-4	D4-225-4	D4-275-4
GROSS OUTPUT	Horsepower	H.P.	25	35	45	55	65	75	85	50	60	70	80	90	100	110	135	95	110	125	150	175	200	225	275
	Steam Radiation	SQ. FT.	3,500	4,900	6,300	7,700	9,100	10,500	11,900	7,000	8,400	9,800	11,200	12,600	14,000	15,400	18,900	13,300	15,400	17,500	21,000	24,500	28,000	31,500	38,500
	Steam Thermal	MBH	836	1,172	1,508	1,843	2,178	2,510	2,846	1,673	2,008	2,344	2,677	3,014	3,348	3,683	4,519	3,181	3,684	4,185	5,021	5,857	6,694	7,532	9,204
	Steam per hr. from & at 212°F	LBS/HR.	862.5	1,207.5	1,552.5	1,897.5	2,242.5	2,587.5	2,932.5	1,725	2,070	2,415	2,760	3,105	3,450	3,795	4,657	3,277	3,795	4,312	5,175	6,037	6,900	7,763	9,488
NET RATING	Steam Radiation	SQ. FT.	2,615	3,672	4,795	5,936	7,042	8,121	9,205	5,376	6,499	7,580	8,663	9,747	10,831	11,914	14,622	10,288	11,913	13,537	16,246	18,953	21,659	24,366	29,783
	Steam Thermal	MBH	650	910	1,170	1,429	1,688	1,948	2,208	1,300	1,560	1,818	2,078	2,339	2,598	2,857	3,507	2,470	2,859	3,248	3,877	4,549	5,197	5,848	7,146
FIRING RATE	Light Oil	GPH	7.5	10.5	13.5	16.5	19.5	22.5	25.5	15	18	21	24	27	30	33	40.5	28.5	33	37.5	45	52.5	60	67.5	82.5
	Heavy Oil	GPH	7	9.9	12.8	15.3	18.2	20.8	23.6	13.9	16.8	19.6	22.3	25.1	27.9	30.7	37.6	26.5	30.9	34.9	41.9	49.2	55.7	62.8	76.8
	Gas	MBH	1,116	1,563	2,007	2,453	2,902	3,346	3,793	2,094	2,510	2,930	3,350	3,787	4,185	4,603	5,650	4,240	4,910	5,578	6,695	7,809	8,925	10,039	12,273
Heating Surface (fireside)		SQ. FT.	100	150	200	250	300	350	400	200	250	300	350	400	450	500	625	400	450	500	625	750	875	1000	1250
Furnace Volume		CU. FT.	16.865	21.230	27.083	32.241	37.846	43.203	48.229	32.547	37.677	42.781	47.911	53.337	58.628	64.027	77.135	61.944	67.593	73.336	88.200	103.806	118.062	133.157	163.715
A	Overall Length	FT.-IN.	5-11 3/8	7-3 3/8	9-4	10-11 1/2	12-10 11/16	14-7 15/16	16-2 15/16	6-11 3/4	7-11 11/16	8-11 3/8	9-11 1/2	11-0 1/8	12-0 7/16	13-1	15-7 1/2	8-10 1/8	9-5 3/4	10-3 1/2	11-11 1/16	13-10 3/8	15-6 3/8	17-7 1/8	21-0 3/8
B	Overall Width (over 2 insulation)	IN.	53 3/8	53 3/8	53 3/8	53 3/8	53 3/8	53 3/8	53 3/8	64	64	64	64	64	64	64	77 3/4	77 3/4	77 3/4	77 3/4	77 3/4	77 3/4	77 3/4	77 3/4	77 3/4
C	Overall Height	IN.	63 3/8	63 3/8	63 3/8	63 3/8	63 3/8	63 3/8	63 3/8	72	72	72	72	72	72	72	85 3/4	85 3/4	85 3/4	85 3/4	85 3/4	85 3/4	85 3/4	85 3/4	85 3/4
D	Shell Length	FT.-IN.	4-0	5-4 1/8	7-2 3/8	8-10 1/8	10-7 3/16	12-3 3/16	13-10 1/16	5-0 3/8	6-0 3/8	7-0 3/8	8-0 3/8	9-0 3/8	10-1 1/16	11-1 1/8	13-8 1/2	6-0 3/8	6-7 3/8	7-3 1/2	8-11 1/16	10-8 3/8	12-4 3/8	14-1 1/8	17-6 3/8
E	Furnace Diameter	IN.	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	31 3/8	31 3/8	31 3/8	31 3/8	31 3/8	31 3/8	31 3/8	31 3/8	41	41	41	41	41	41	41	41
F	Furnace Length	IN.	40 1/16	57 1/16	79 1/16	98 1/16	119 7/16	140 1/16	159 1/16	52 3/16	64 7/16	76 3/16	88 1/16	101 3/16	113 3/16	126 3/16	156 1/16	64 3/16	72	79 3/16	99 1/16	120 7/16	140 7/16	161 3/16	202 7/16
G	Normal Water Line *	IN.	53 3/4	53 3/4	53 3/4	53 3/4	53 3/4	53 3/4	53 3/4	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	61 1/16	71 7/16	71 7/16	71 7/16	71 7/16	71 7/16	71 7/16	71 7/16	71 7/16
H	Height - C.L. of Furnace	IN.	27 7/8	27 7/8	27 7/8	27 7/8	27 7/8	27 7/8	27 7/8	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	31 3/16	36 1/2	36 1/2	36 1/2	36 1/2	36 1/2	36 1/2	36 1/2	36 1/2
J	Depth-Reversing Chamber	IN.	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10
K	Depth-Smoke Hood	IN.	13	13	15	15	17	17	17	15	17	17	17	19	19	19	21	19	19	21	21	23	23	27	27
L	Vent Outlet Dia.	IN.	10	10	12	12	14	14	14	12	14	14	14	16	16	16	18	16	16	18	18	20	20	24	24
M	Top - Front Rev. Chamber	IN.	50	50	50	50	50	50	50	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	60 3/8	71 3/8	71 3/8	71 3/8	71 3/8	71 3/8	71 3/8	71 3/8	71 3/8
N	Bottom - Front Rev. Chamber	IN.	26 3/8	26 3/8	26 3/8	26 3/8	26 3/8	26 3/8	26 3/8	31	31	31	31	31	31	31	31	35 1/2	35 1/2	35 1/2	35 1/2	35 1/2	35 1/2	35 1/2	35 1/2
P	Top - Smoke Hood	IN.	60 3/4	60 3/4	60 3/4	60 3/4	60 3/4	60 3/4	60 3/4	71	71	71	71	71	71	71	71	84 3/4	84 3/4	84 3/4	84 3/4	84 3/4	84 3/4	84 3/4	84 3/4
Q	Bottom - Smoke Hood	IN.	42 3/8	42 3/8	42 3/8	42 3/8	42 3/8	42 3/8	42 3/8	51	51	51	51	51	51	51	51	60 3/4	60 3/4	60 3/4	60 3/4	60 3/4	60 3/4	60 3/4	60 3/4
R	Saddle Width	IN.	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
S	Saddle Length	IN.	36 3/4	36 3/4	36 3/4	36 3/4	36 3/4	36 3/4	36 3/4	47	47	47	47	47	47	47	47	61 1/2	61 1/2	61 1/2	61 1/2	61 1/2	61 1/2	61 1/2	61 1/2
T	C.L. Front Saddle	IN.	12 1/2	12 1/2	13	13	13 1/2	14	14 1/2	13	13	13	13	13	13	13	13	15	15	15	15	15	15	15	15
V	C.L. Rear Saddle	IN.	32	48 1/2	70 3/8	90 1/8	111 1/4	131 1/2	150	37	49	61	73	85	98	110	141	46	54	63	85	104	123	144	185
	Steam Outlet Size	IN.	6	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	10	10
	Return Size	IN.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4
Heat Release Rate		BTUs/FT ³ /HR	62,259	69,242	69,785	71,648	72,134	72,912	74,022	64,522	66,884	68,722	70,130	70,870	71,638	72,157	73,507	64,413	68,350	71,588	71,429	70,805	70,812	70,621	70,187
Steam Disengaging Area at N.W.L.		SQ. FT.	12.44	16.976	23.059	28.42	34.245	39.812	45.034	17.817	21.508	25.180	28.87	32.774	36.581	40.465	49.895	27.214	30.216	33.267	41.166	49.458	57.332	65.402	81.741
Steam Cubic Space Over N.W.L.		CU. FT.	7.302	9.964	13.534	16.681	20.099	23.266	26.433	10.356	12.501	14.636	16.781	19.05	21.262	23.52	29.001	21.302	23.651	26.039	32.222	38.713	44.876	51.193	63.982
Steam Space from normal w.l. to inside shell		IN.	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	10 1/16	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2
Water Content to N.W. Line		GAL.	152	221	314	396	484	569	649	295	367	439	511	587	661	737	921	494	561	625	790	964	1,129	1,298	1,640
Dry Weight (Approx.)		LBS.	3,105	3,728	4,558	5,290	6,090	6,850	7,566	4,755	5,370	5,975	6,590	7,235	7,865	8,510	10,070	8,500	9,060	9,630	11,100	12,645	14,450	16,000	19,360
Operating Weight (Approx.)		LBS.	4,370	5,565	7,170	8,582	10,122	11,588	12,967	7,215	8,430	9,635	10,850	12,130	13,375	14,655	17,745	12,650	13,735	14,840	17,685	20,680	23,860	26,815	33,025

* Normal water lines shown here are without a hot water Coil. For hot water coil, add 1 3/4".

General Boiler Specifications

The boiler located at _____ will be a Supreme Boiler, three pass, wetback, scotch-marine type boiler, Model _____.

The boiler shall be designed for 15 PSI steam or 30 Psi water. Heating surface will be rated at five Sq. feet per boiler horsepower. The boiler will have a minimum of _____ Sq. Ft. of fireside heating surface and have a heat release no greater than _____ BTU per Cubic Foot per Hour. The furnace diameter will not be less than _____. The boiler should have a minimum of _____ gallons of water when filled to the normal water line.

The boiler design will be a welded steel horizontal fire tube type. The boiler will be assembled at the job location by the manufacturer. The boiler is designed, built, inspected, tested and stamped according to Sections IV, IX, IIA, IIC, and IID of the ASME Code, and its addenda in effect.

All of the tubes are 2 ½" O.D. (2" O.D. in the D1 Model Line) and are of 10 gauge domestic steel. The tubes are rolled, expanded, and flared into the tube sheets.

The boiler shall have a 22" diameter (18" on the D1 Model Line) access door at the rear of the boiler

The boiler manufacturer will submit copies of heating surface (fireside) calculations in accordance with applicable ASME code sections to the engineer.



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