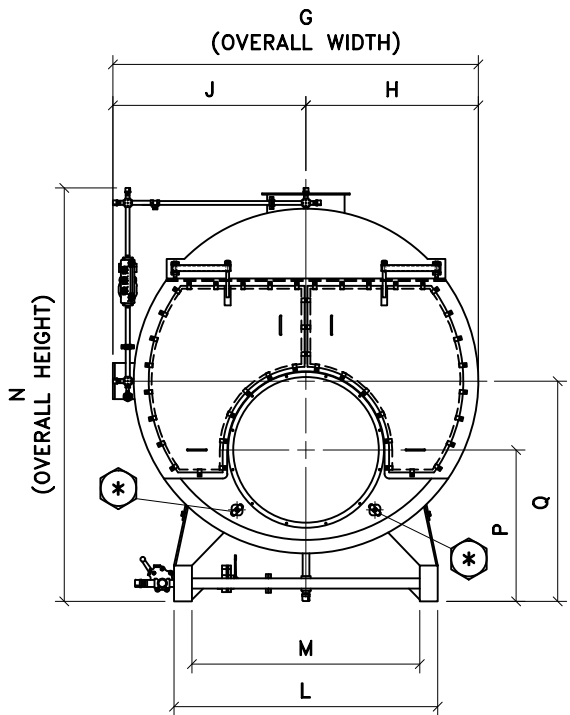
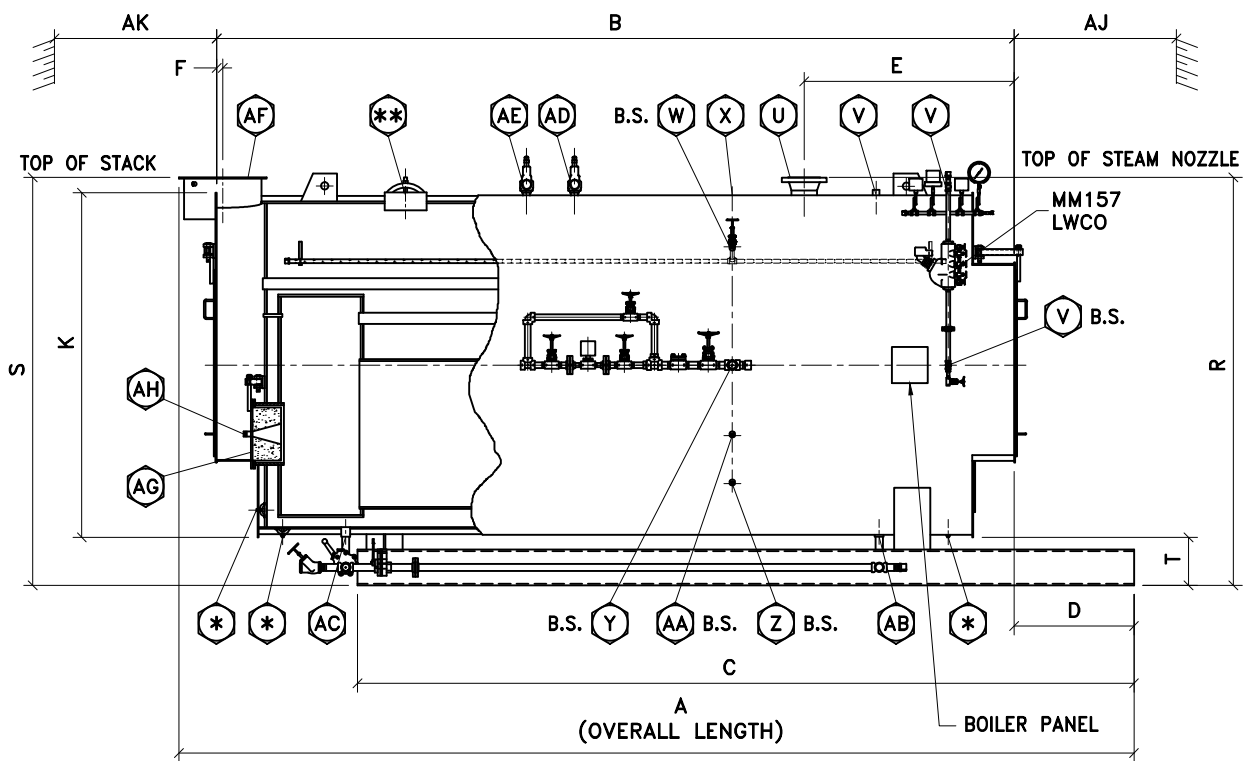


10701 E. 126th St. North,
Collinsville, OK 74021
PHONE: 918-274-0023
FAX: 918-274-0059



150 PSIG 3-PASS WET BACK
SCOTCH MARINE BOILER
DIMENSIONS & DATA CHART



FOR ALL BOILER MODELS	
B.S. – ON BOTH SIDES OF BOILER	
U – 300# WELDNECK FLG	
* – (5) 3" x 4" HANDHOLE	
** – (1) 12" x 16" MANWAY	

DIMENSIONS CHART

BOILER MODEL		F3-200	F3-250	F3-300	F3-350	F3-400	F3-500	F3-600	F3-700	F3-750	F3-800	F3-900	F3-1000	F3-1100	F3-1200	F3-1300	F3-1400	F3-1500	F3-1600	F3-1700	F3-1800	F3-2000	F3-2200	F3-2500
BOILER HORSEPOWER		200	250	300	350	400	500	600	700	750	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2500
HEATING SURFACE (ASME) (SqFt)		1017	1275	1517	1757	2010	2504	3011	3534	3767	4023	4548	5007	5565	6048	6532	7052	7565	8104	8501	9072	10039	11076	12566
OVERALL LENGTH	A	18'-0"	20'-7"	23'-0"	23'-4"	22'-1"	25'-7"	25'-2"	24'-9"	25'-10"	27'-1"	24'-7"	26'-3"	25'-9"	27'-3"	28'-9"	27'-3"	28'-9"	33'-5"	34'-7"	36'-3"	35'-9"	38'-5"	42'-3"
SHELL LENGTH	B	13'-10"	16'-5"	18'-10"	19'-0"	17'-9"	21'-3"	20'-9"	20'-4"	21'-5"	22'-8"	20'-2"	21'-10"	21'-2"	22'-8"	24'-2"	22'-0"	23'-6"	28'-8"	29'-10"	31'-6"	30'-10"	33'-6"	37'-4"
SKID LENGTH	C	13'-7"	16'-2"	18'-7"	18'-10"	17'-6"	21'-1"	20'-6"	19'-9"	20'-10"	22'-1"	19'-7"	21'-3"	20'-7"	22'-1"	23'-7"	21'-5"	22'-11"	27'-5"	28'-7"	30'-3"	29'-6"	32'-2"	36'-0"
BOILER FRONT TO SKID FRONT	D	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"
BOILER FRONT TO STEAM NOZZLE	E	4'-7"	4'-7"	4'-7"	5'-4"	5'-5"	5'-5"	5'-10"	5'-10"	5'-10"	5'-10"	5'-10"	5'-10"	5'-10"	5'-10"	5'-10"	5'-10"	5'-10"	6'-6"	6'-6"	6'-6"	7'-8"	7'-8"	7'-8"
BOILER REAR TO STACK C	F	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	1"	1"	1"	3"	3"	3"	3"	3"	3"	3"	3"
OVERALL WIDTH	G	7'-7"	7'-7"	7'-7"	8'-1"	9'-0"	9'-0"	9'-6"	10'-2"	10'-2"	10'-2"	10'-10"	10'-10"	11'-8"	11'-8"	11'-8"	12'-10"	12'-10"	12'-10"	12'-10"	12'-10"	13'-0"	13'-0"	13'-0"
CENTER TO SMOKEBOX O.D.	H	3'-6"	3'-6"	3'-6"	3'-9"	4'-3"	4'-3"	4'-6"	4'-10"	4'-10"	4'-10"	5'-2"	5'-2"	5'-7"	5'-7"	5'-7"	6'-2"	6'-2"	6'-2"	6'-2"	6'-2"	6'-3"	6'-3"	6'-3"
CENTER TO PANEL	J	4'-1"	4'-1"	4'-1"	4'-4"	4'-9"	4'-9"	5'-0"	5'-4"	5'-4"	5'-4"	5'-8"	5'-8"	6'-1"	6'-1"	6'-1"	6'-8"	6'-8"	6'-8"	6'-8"	6'-8"	6'-9"	6'-9"	6'-9"
JACKET DIAMETER	K	6'-10"	6'-10"	6'-10"	7'-4"	8'-3"	8'-3"	8'-9"	9'-5"	9'-5"	9'-5"	10'-1"	10'-1"	10'-11"	10'-11"	10'-11"	12'-1"	12'-1"	12'-1"	12'-1"	12'-1"	12'-3"	12'-3"	12'-3"
SKID WIDTH OUTSIDE	L	5'-6"	5'-6"	5'-6"	5'-11"	6'-10"	6'-10"	7'-4"	7'-4"	7'-4"	7'-4"	7'-11"	7'-11"	8'-9"	8'-9"	8'-9"	9'-11"	9'-11"	9'-11"	9'-11"	9'-11"	9'-11"	9'-11"	9'-11"
SKID WIDTH INSIDE	M	4'-10"	4'-10"	4'-10"	5'-3"	5'-10"	5'-10"	6'-4"	6'-4"	6'-4"	6'-11"	6'-11"	7'-9"	7'-9"	7'-9"	7'-9"	8'-11"	8'-11"	8'-11"	8'-11"	8'-11"	8'-11"	8'-11"	8'-11"
OVERALL HEIGHT	N	8'-7"	8'-7"	8'-7"	9'-1"	10'-4"	10'-4"	10'-10"	11'-6"	11'-6"	11'-6"	12'-2"	12'-2"	13'-0"	13'-0"	13'-0"	14'-2"	14'-2"	14'-2"	14'-2"	14'-2"	14'-4"	14'-4"	14'-4"
FLOOR TO CENTER OF FURNACE	P	3'-3 1/2"	3'-3 1/2"	3'-3 1/2"	3'-4 1/2"	3'-11 1/2"	3'-11 1/2"	4'-1 1/2"	4'-2 1/2"	4'-2 1/2"	4'-2 1/2"	4'-4 1/2"	4'-4 1/2"	4'-8 1/2"	4'-8 1/2"	4'-8 1/2"	5'-0 1/2"	5'-0 1/2"	5'-0 1/2"	5'-0 1/2"	5'-0 1/2"	4'-10 1/2"	4'-10 1/2"	4'-10 1/2"
FLOOR TO CENTER OF BOILER	Q	4'-6"	4'-6"	4'-6"	4'-9"	5'-6 1/2"	5'-6 1/2"	5'-9 1/2"	6'-1 1/2"	6'-1 1/2"	6'-1 1/2"	6'-5 1/2"	6'-5 1/2"	6'-10 1/2"	6'-10 1/2"	6'-10 1/2"	7'-5 1/2"	7'-5 1/2"	7'-5 1/2"	7'-5 1/2"	7'-5 1/2"	7'-6 1/2"	7'-6 1/2"	7'-6 1/2"
FLOOR TO STEAM NOZZLE	R	8'-4"	8'-4"	8'-4"	8'-11"	10'-2"	10'-2"	10'-8"	11'-4"	11'-4"	11'-4"	12'-0"	12'-0"	12'-10"	12'-10"	12'-10"	14'-0"	14'-0"	14'-0"	14'-0"	14'-0"	14'-4"	14'-4"	14'-4"
FLOOR TO STACK OUTLET	S	8'-4"	8'-4"	8'-4"	8'-11"	10'-2"	10'-2"	10'-8"	11'-4"	11'-4"	11'-4"	12'-0"	12'-0"	12'-10"	12'-10"	12'-10"	14'-0"	14'-0"	14'-0"	14'-0"	14'-0"	14'-4"	14'-4"	14'-4"
FLOOR TO BOTTOM OF SMOKEBOX	T	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"
STEAM NOZZLE CONNECTION	U	6"	6"	6"	6"	6"	6"	8"	8"	8"	8"	8"	8"	10"	10"	10"	10"	10"	12"	12"	12"	16"	16"	16"
AUXILLARY CONNECTION	V	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
SURFACE BLOWDOWN CONNECTION	W	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
VENT CONNECTION	X	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
FEEDWATER CONNECTION	Y	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
LOW FIRE HOLD CONNECTION	Z	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
CHEMICAL FEED CONNECTION	AA	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
BLOWDOWN FRONT CONNECTION	AB	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
BLOWDOWN REAR CONNECTION	AC	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
SAFTEY VALVE CONNECTION	AD																							
SAFTEY VALVE CONNECTION	AE																							
FLANGED STACK I.D.	AF	20"	20"	20"	24"	24"	24"	26"	26"	26"	26"	26"	26"	28"	28"	28"	36"	36"	36"	36"	36"	40"	40"	40"
CLEAN OUT PORT	AG	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"	Ø18"
SIGHT PORT CONNECTION	AH	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE	1" PIPE
MIN. TUBE REMOVAL FRONT	AJ	12'-6"	15'-1"	17'-6"	17'-8"	16'-5"	19'-11"	19'-5"	19'-0"	20'-1"	21'-4"	18'-10"	20'-6"	19'-10"	21'-4"	22'-10"	20'-8"	22'-2"	26'-8"	27'-10"	29'-6"	28'-10"	31'-6"	35'-4"
MIN. TUBE REMOVAL REAR	AK	12'-6"	15'-1"	17'-6"	17'-8"	16'-5"	19'-11"	19'-5"	19'-0"	20'-1"	21'-4"	18'-10"	20'-6"	19'-10"	21'-4"	22'-10"	20'-8"	22'-2"	26'-8"	27'-10"	29'-6"	28'-10"	31'-6"	35'-4"

DATA CHART

GROSS OUTPUT (MBH)	6695	8369	10043	11716	13390	16738	20085	23433	25106	26780	30128	33475	36823	40170	43518	46865	50213	53560	56908	60255	66950	73645	83688
STEAM OUTPUT (FROM & 212 °F) (LBS/HR)	6900	8625	10350	12075	13800	17250	20700	24150	25875	27600	31050	34500	37950	41400	44850	48300	51750	66950	58649	62100	69000	75900	86249
RATED INPUT (MBH)	8369	10461	12553	14645	16738	20922	25106	29291	31383	33475	37659	41844	46028	50213	54397	58581	62766	55200	71134	75319	83688	92056	104609
FURNACE VOLUME (CuFt)	54.47	71.49	87.40	100.21	120.77	154.55	179.11	189.67	203.43	219.30	222.42	247.24	289.36	316.88	344.40	374.66	408.17	486.13	511.78	548.44	564.03	626.43	716.13
TURNAROUND VOLUME (CuFt)	42.09	42.09	42.09	43.36	61.67	61.67	69.03	77.09	77.09	77.09	80.45	80.45	113.33	113.33	113.33	125.12	125.12	125.12	125.12	125.12	135.33	135.33	135.33
STEAM VOLUME (CuFt)	27.98	34.53	40.66	49.04	70.17	86.59	102.87	124.10	131.76	140.60	138.18	151.43	141.54	153.10	164.65	212.58	229.18	271.60	284.52	302.96	330.82	363.85	411.33
STEAM RELEASE AREA (SqFt)	48.01	59.24	69.75	76.57	84.50	104.27	110.25	118.16	125.46	133.88	124.81	136.78	135.61	146.68	157.75	164.42	177.26	210.08	220.06	234.33	237.38	261.08	295.15
GALLONS OF WATER FULL (Gal)	1569	1969	2343	2821	3260	4072	4314	5006	5329	5703	5523	6074	6758	7338	7918	8919	9645	11502	12067	12874	12349	13618	15442
GALLONS OF WATER @ NWL (Gal)	1359	1710	2039	2454	2735	3425	3545	4077	4344	4651	4489	4942	5699	6193	6686	7329	7931	9470	9938	10607	9874	10896	12365
POUNDS OF WATER FULL (Lbs)	13046	16374	19486	23467	27117	33872	35884	41635	44328	47436	45935	50525	56209	61033	65857	74184	80226	95666	100365	107078	102712	113269	128443
POUNDS OF WATER @ NWL (Lbs)	11305	14225	16957	20416	22751	28484	29483	33914	36130	38688	37337	41102	47403	54507	55612	60957	65966	78767	82663	88228	82129	90630	102850
SHIPPING WEIGHT WITHOUT BURNER (Lbs)	20,000	23,000	25,800	28,600	33,800	39,300	43,400	48,000	50,300	52,900	58,500	63,200	70,600	75,000	79,400	84,100	89,200	107,600	111,800	117,700	122,400	132,600	147,300

NOTES:

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- PRELIMINARY DIMENSIONS AND MAY BE USED FOR LAYOUT ONLY.
- BOILER INSULATED WITH 2"-8# DENSITY MINERAL FIBER INSULATION WITH 22 GAUGE STEEL JACKET.

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