Fulton Boiler Works, Inc.

Product Data Submittal

Fulton Models FB004-A - FB060-A and Models FB004-F - FB030-F

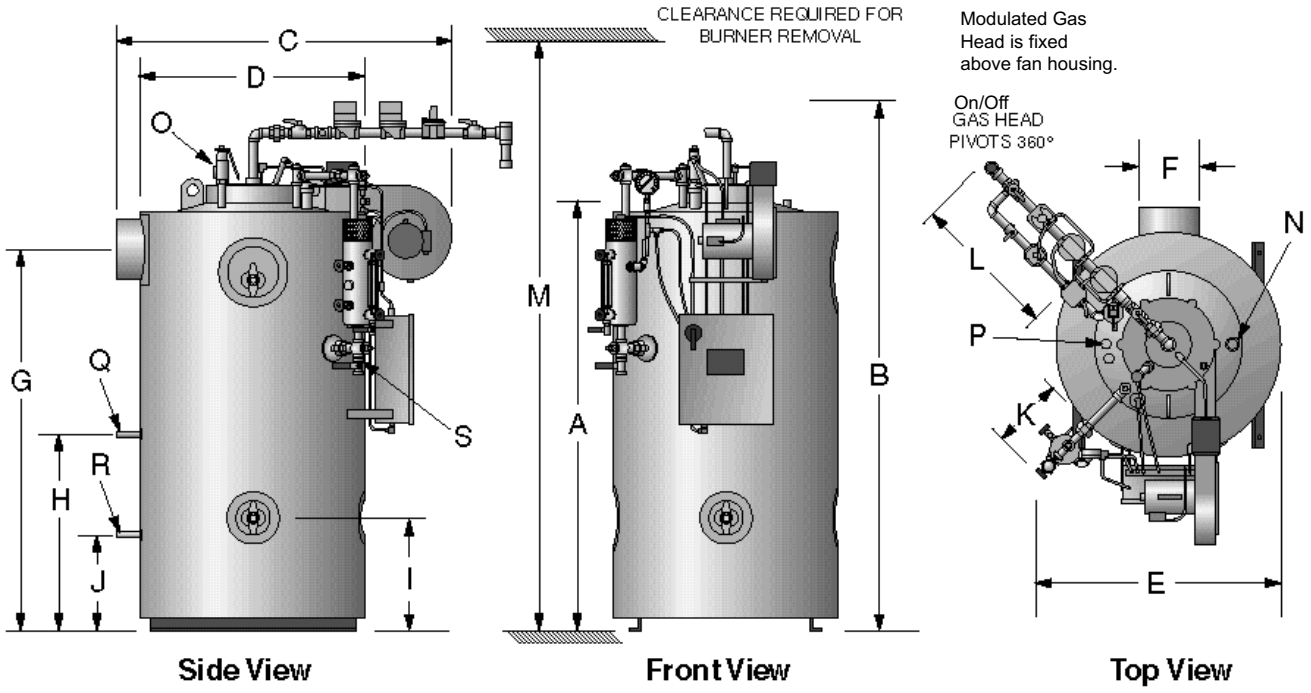
Fulton Gas & Oil Fired Vertical Tubeless Steam Boilers

(Standard Burner)

Dimensions

Standard Models FB-A **Models FB-F**		**4** **4**	**6** **6**	**9.5** **9.5**	**10** **10**	**15** **15**	**20** **20**	**25**	**30** **30**	**50**	**60**
Unit Size:	BHP	4	6	9.5	10	15	20	25	30	50	60
A. Boiler Height	IN	47.5	57.5	67.5	63.5	69.5	72.5	75	82.5	87.5	93.5
	MM	1207	1461	1715	1613	1765	1842	1905	2069	2223	2375
B. Boiler Height With Trim*	IN	65	75	85	80.5	86.5	92.5	95	102	106.5	120
& Fuel Train Assembly	MM	1651	1905	2159	2045	2197	2350	2413	2591	2705	3048
C. Overall Depth Stack	IN	44	44	44	46	47	58	59	67	78	78
to Burner Fan Housing	MM	1118	1118	1118	1168	1194	1474	1499	1702	1981	1981
D. Boiler Diameter	IN	26	26	26	28	30	39	39	46	55	55
	MM	660	660	660	710	760	990	990	1170	1400	1400
E. Overall Width	IN	33	33	33	33.5	35.5	43	43	49	57	57
with Water Column	MM	838	838	838	851	902	1091	1091	1244	1448	1448
F. Flue Outlet Diameter	IN	6	6	6	6	8	10	10	12	12	12
	MM	152	152	152	152	203	254	245	305	305	305
G. To Center of Flue Outlet	IN	42	52	62	58	63	66	68	73.5	79	85
	MM	1070	1320	1575	1473	1600	1675	1728	1867	2007	2159
H. Feedwater Inlet	IN	27	33	33.5	33	33.5	34	34	34	35	35
	MM	685	840	851	840	851	865	865	865	890	890
I. Handholes	IN	19	19	19	19	19	19	19	19	20	20
	MM	485	485	485	485	485	485	485	485	510	510
J. Blowdown Outlet	IN	15	15	15.5	15.5	15.5	16.5	16.5	16.5	17.5	17.5
	MM	380	380	394	394	394	420	420	420	445	445
K. Water Column Extension	IN	14	14	14	14	14	14	14	14	14	14
	MM	355	355	355	355	355	355	355	355	355	355
L. Gas Train Extension	IN	22.5	22.5	25	21.5	20.5	25	25	27	22.5	34
(CSD-1)	MM	572	572	635	546	521	635	635	686	572	867
M. Clearance Required	IN	72	82	92	86	92	96	98	106	114	124
for Burner Removal *	MM	1828	2083	2337	2184	2337	2438	2490	2692	2896	3150
Weights											
Approx. Shipping Weight	LB	1400	1700	1900	2000	2280	3400	3500	4780	6526	7280
	KG	635	773	862	910	1036	1545	1591	2173	2966	330

*This dimension is 6” less for oil fired units 4-50 HP and 12” less for oil fired units 60 HP.



Specifications

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Models FB-A/FB-F		**4**	**6**	**9.5**	**10**	**15**	**20**	**25**	**30**	**50**	**60**
Boiler Connections											
N. Steam Outlet 15 PSI	IN	1	1	N/A	1.5	2	3	3	3	4	4
	MM	25	25		38	51	76	76	76	102	102
N. Steam Outlet 150 PSI	IN	0.75	0.75	1	1	1.25	1.5	2	2	3	3
(9.5 HP 100 PSI)	MM	19	19	25	25	32	38	51	51	76	76
O. Safety Valve Outlet 15 PSI	IN	0.75	0.75	N/A	0.75	1.5	1.5	1.5	1.5	1.5	1.5
	MM	19	19		19	38	38	38	38	38	38
O. Safety Valve Outlet 150 PSI+	IN	1	1	1	1	1	1.25	1.25	1.25	1.5	1.5
(9.5 HP 100 PSI)	MM	25	25	25	25	25	32	32	32	38	38
P. Safety Valve Inlet 15 PSI++	IN	0.75	0.75	N/A	0.75	1.25	1.25	1.25	1.25	1.25	1.25
	MM	19	19		19	32	32	32	32	32	32
P. Safety Valve Inlet 150 PSI	IN	0.75	0.75	0.75	0.75	0.75	1	1	1	1.25	1.25
(9.5 HP 100 PSI)	MM	19	19	19	19	19	25	25	25	32	32
Q. Feedwater Inlet	IN	0.75	0.75	1	1	1	1	1	1	1	1
	MM	19	19	25	25	25	25	25	25	25	25
R. Blowdown Outlet	IN	1	1	1	1	1	1.25	1.25	1.25	1.5	1.5
	MM	25	25	25	25	25	32	32	32	38	38
S. Water Column Blowdown	IN	1	1	1	1	1	1	1	1	1	1
	MM	25	25	25	25	25	25	25	25	25	25
Ratings* (Sea level to 3000 ft.)											
Output	1000 BTU/HR	134.4	201.6	318	336	504	672	838	1008	1680	2016
	1000 KCAL/HR	33.8	50.8	80.1	84.6	127	169.3	211.1	254	423.4	508
Steam Output	LB/HR	138	207	328	345	519	692	863	1038	1731	2077
	KG/HR	63	94	149	157	235	313	392	470	785	942
Approximate Fuel Consumption at Rated Capacity+++											
Light Oil	GPH	1.2	1.8	2.9	3	4.5	6	7.5	9	15	18
	LPH	4.5	6.8	10.8	11.4	17	22.7	28.5	34	57	68
Propane Gas (FB-A)	FT3/HR	67.2	100.8	157	168	252	336	420	504	840	1008
(14" w.c. req'd)	M3/HR	1.9	2.9	4.4	4.8	7.1	9.5	11.9	14.3	23.8	28.5
Propane Gas (FB-F)	FT3/HR	63	95		159	238	317		475		
(14" w.c. req'd)	M3/HR	2.2	3.4	N/A	5.6	8.4	11.2	N/A	16.8	N/A	N/A
Natural Gas (FB-A)	FT3/HR	168	252	398	420	630	840	1050	1260	2100	2520
(7" - 11" w.c. req'd)	M3/HR	4.8	7.1	11.3	11.9	17.8	23.8	29.8	35.7	59.5	71.4
Natural Gas (FB-F)	FT3/HR	159	238		397	595	794		1190		
(7" - 11" w.c. req'd)	M3/HR	5.6	8.4	N/A	14.0	21.0	28.1	N/A	42.0	N/A	N/A
Natural Gas Boiler	IN	1	1	1	1	1	1.25	1.25	1.5	1.5	2
Connection Size (Std CSD-1)	MM	25	25	25	25	25	32	32	38	38	51
Oil Inlet Size	IN	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
	MM	6	6	6	6	6	6	6	6	6	6
Burner 3450 RPM/60 CY							1/3 gas	1/3 gas		1.5 gas	1.5 gas
Motor HP 2850 RPM/50 CY		1/3	1/3	1/3	1/3	1/3	3/4 oil	3/4 oil	3/4	2 oil	2 oil
Electric Power Requirements - Burner Only (in Amps) * **											
120V,60 CY, 1 Phase		5.2	5.2	5.2	5.2	5.2	5.2 gas 9.2 oil	5.2 gas 9.2 oil	9.2	--	--
240V, 50/60 CY, 1 Phase		2.6	2.6	2.6	2.6	2.6	2.6 gas 4.6 oil	2.6 gas 4.6 oil	4.6	8.9 gas 9.5 oil	8.9 gas 9.5 oil
208V, 50/60 CY, 3 Phase		1.9	1.9	1.9	1.9	1.9	1.9 gas 3.1 oil	1.9 gas 3.1 oil	3.1	4.4 gas 5.7 oil	4.4 gas 57 oil
240V, 50/60 CY, 3 Phase		1.6	1.6	1.6	1.6	1.6	1.6 gas 2.8 oil	1.6 gas 2.8 oil	2.8	4.2 gas 5.4 oil	4.2 gas 5.4 oil
480V, 50/60 CY, 3 Phase		0.8	0.8	0.8	0.8	0.8 1	0.8 gas .4 oil	0.8 gas 1.4 oil	1.4	2.1 gas 2.7 oil	2.1 gas 2.7 oil
Water Content											
	U.S. GAL	14	16	16	24	39	77	82	170	245	270
	LITERS	53	61	61	91	148	292	310	644	927	1022

Specifications and Dimensions are approximate. We reserve the right to change specifications and/or dimensions..**+** High pressure boilers purchased with low pressure openings may have larger than specified opening sizes, consult factory for correct opening sizes.**++** 50 and 60 HP have two safety valves on low pressure. **+++**Consumption based on light Oil 140,000 BTU/G; Natural Gas 1000 BTU/ft.^{3}; Propane 2500 BTU/ft^3. *All ratings from 0 PSIG and at 212 degrees F. *** Control circuit electrical requirement will vary with the system voltage, please consult factory. **--**Consult factory.

FBA Std Burner PDS
2/08
Printed in USA