

Fulton vertical fuel-fired steam and hot water boiler

For over 60 years the Fulton vertical tubeless boilers have remained a compact trouble-free boiler supplying steam and hot water to virtually every type of industry imaginable.

The Classic efficient FB-A, FB-B Fulton boilers are available in 13 sizes ranging from 4 to 150 BHP.

Simplicity and reliability offer years of trouble-free operation. With no tubes or coils to scale up, rust or burn out, a Fulton Boiler reduces plant operating costs by eliminating down time and expensive repairs.

All Fulton Boilers feature the Fulton designed top mounted down-fired standard power burner or new optional low emissions burner. The velocity of the premixed air and gas reduces the residence time in the low emissions burner. Due to this high velocity gas/air mixture, Fulton's burners are capable of maintaining NOx concentrations below 20 PPM and 60 PPM CO corrected to 3% O2. The Fulton Low Emissions Burner is also under 20 ng NOx/joule output.





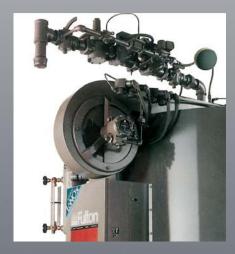
Fulton Engineers/Manufactures Total System for Industrial Process Applications

Fulton, involved in engineering total systems to meet the needs of a specific application has been manufacturing steam boilers for over 60 years. Fulton's engineering, drafting, and manufacturing capabilities can build just about anything around a customer's needs. Fulton's custom built, factory skid mounted and pre-piped equipment save a tremendous amount of time and work on the job site.

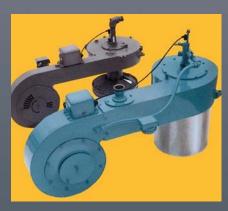




Custom skid mounted boiler and accessories



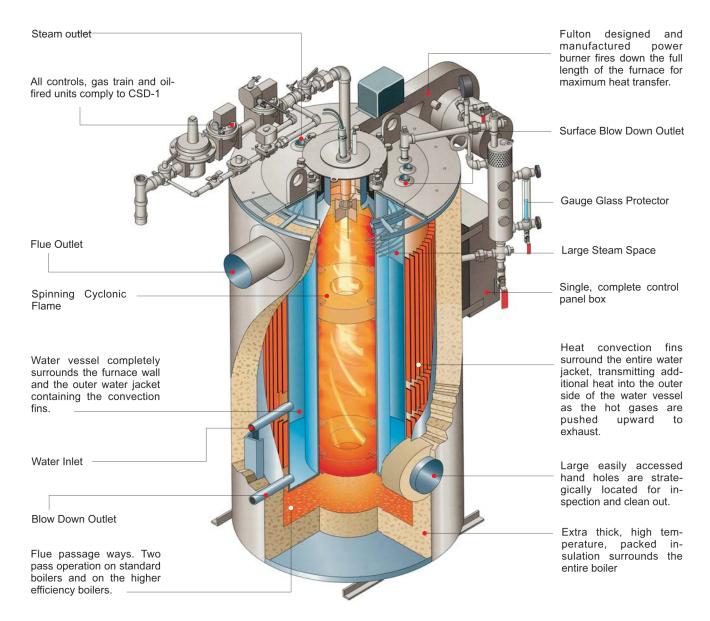
The Fulton Classic FB-A, FB-B boilers can be ordered with combination oil and gas capabilities or be converted at any time simply and economically.



Standard top-mounted down-fired burner (back) and low emission burner (front)



Component View/Features of the vertical tubeless boiler (4-60BHP.)



The Fulton Difference

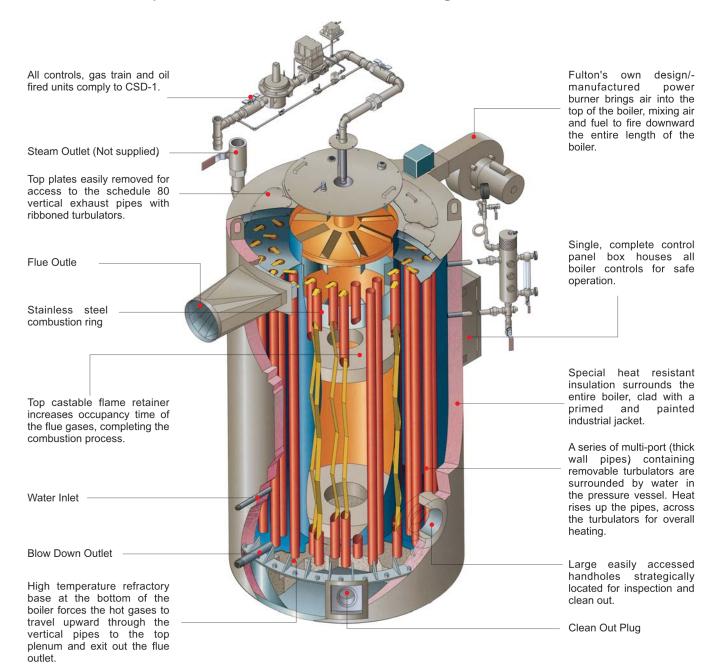
Pipe Within a Pipe

The furnace (Pressure vessel) is, simply stated, a "pipe within a pipe." The top mounted burner sends a spinning, cyclonic flame down the center furnace chamber. The hot gases return upward in the secondary flue passage, traveling over the heat convection fins. These fins transmit the remaining heat onto the outer side of the water vessel. This results in the most uniform overall heating of the boiler, maximizing the pressure vessel's longevity.





Component View/Features of the VMP Design in 80-150 BHP



The Fulton Difference

Pipe vs. Tube

Sixty years after creating the vertical tubeless category of boilers, Fulton has introduced another innovation-the Pipetype Boiler. Constructed of Schedule 80, heavy wall pipes replacement is a thing of the past. This simple design is proven by decades of experience, and is backed by our unmatched warranty. See the difference there or call us for physical sample of our "Pipe vs. Tube".



Specifications/Steam boiler

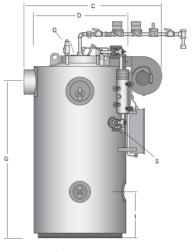
Model FB-A		4	6	10	15	20	30	40	50	60	80	100	130	150
Ratings (sea lev	vel to 3000ft.)													
Steam out put	LB/HR	138	207	345	518	690	1035	1380	1725	2070	2760	3450	4484	5175
	KG/HR	63	94	157	235	312	470	627	783	939	1252	1565	2034	2348
Approximate Fu	iel Consumption at	Rated Ca	pacity											
Light oil	KG/HR	3.77	5.65	9.42	14.71	18.91	29.07	38.41	48.80	58.14	76.10	91.31	121.75	140.55
Propane Gas	M ³ / HR	1.88	2.81	4.69	7.32	9.41	14.47	19.12	24.29	28.94	37.88	45.45	60.61	69.97
Natural Gas	M ³ /HR	4.74	7.11	11.85	18.51	23.79	36.58	48.34	61.41	73.16	95.76	114.91	153.22	176.87
Town Gas	M ³ / HR	12.06	18.09	30.14	47.06	60.50	93.02	122.92	156.15	186.05	243.51	292.21	358.61	413.97
Natural Gas Boi	iler IN	1	1	1	1	1.25	1.5	1.5	1.5	2	2.5	3	3	3
Connection Size	e MM	25	25	25	25	32	38	38	38	50	64	76	76	76
Burner	3450 RPM/60CY					GAS OIL	GAS OIL	GAS OIL	GAS OIL	GAS OIL	GAS OIL	GAS OIL	GAS OIL	GAS OII
Motor HP	2850 RPM/50CY	1/3	1/3	1/3	1/3	1/3 3/4	1/3 3/4	$1\frac{1}{2}$ 2	$1\frac{1}{2}$ 2	$1\frac{1}{2}$ 2	2 3	3 3	4 4	4 4
Electric Power F	Requirements (in A	mps)												
380V/50HZ	3Phase	0.9	0.9	0.9	0.9	0.9 1.4	0.9 1.4	2.6 3.7	2.6 3.7	2.6 3.7	3.7 4.6	4.6 4.6	6.2 6.2	6.2 6.2
Control voltage		2	2	2	2	2	2	2	2	2	2	2	2	2
220V/50HZ/1 Pł	hase													

Note: High pressure boilers ordered with an extra pressure control for night heating have less than rated output while operating at low pressure.

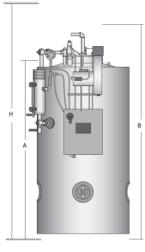
Specifications/Hot water boiler

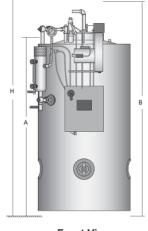
Model FB-B		4	6	10	15	20	30		40		50		60		80		100		130		150	
Ratings (Sea Lev	vel to 3000 ft)						'															
Output	1000BTU/HR	136	205	341	512	682	102	23	1365		1706		2047		2729		3412		4435		5117	
	1000KCAL/HR	34.4	51.6	86.0	129.0	172.0	258	3.0	344.0		430.0)	516.0)	688.0)	860.0)	1118.	.0	1290	.0
Hot water OUTPU	T(30°C difference)	1147	1720	2867	4300	5733	860	00	11467		1433	3	1720	0	2293	3	2866	7	3726	7	4300	0
Approximate Fue	el Consumption at	Rated Ca	pacity				-															
Light oil	KG/HR	3.70	5.55	9.25	13.09	17.45	26.	18	34.90		43.63	3	52.35	5	68.25	5	85.32	2	110.9	91	126.5	57
Propane Gas	M³/ HR	1.84	2.76	4.61	6.52	8.69	13.	03	17.37		21.72	2	26.06	3	33.98	3	42.47	7	55.21	1	63.00)
Natural Gas	M³/ HR	4.66	6.99	11.64	16.47	21.96	32.	94	43.92		54.90)	65.88	3	85.89	9	107.3	37	139.5	58	159.2	28
Town Gas	M³/ HR	11.84	17.76	29.60	41.88	55.84	83.	77	111.69		139.6	31	167.5	53	218.4	11	273.0)2	354.9	92	405.0)2
Natural Gas Boile	er IN	1	1	1	1	1.25	1.5		1.5		1.5		2		2.5		3		3		3	
Connection Size	MM	25	25	25	25	32	38		38		38		50		64		76		76		76	
Burner 3	3450 RPM/60CY					GAS OII	L GA	S OIL	GAS (OIL	GAS	OIL	GAS	OIL	GAS	OIL	GAS	OIL	GAS	OIL	GAS	OIL
Motor HP 2	2850 RPM/50CY	1/3	1/3	1/3	1/3	1/3 3/4	1/3	3/4	$1\frac{1}{2}$	2	$1\frac{1}{2}$	2	$1\frac{1}{2}$	2	2	3	2	3	4	5	4	5
Electric Power R	equirements (in A	mps)																				
380V/50HZ	3Phase	0.9	0.9	0.9	0.9	0.9 1.4	0.9	1.4	2.6 3	3.7	2.6	3.7	2.6	3.7	3.7	4.6	3.7	4.6	6.2	8	6.2	8
Control voltage		2	2	2	2	2		2		2		2		2		2		2		2		2
220V/50HZ/1 Ph	ase																					

Note: Fuel consumption based on: light oil 11200 kcal/kg, Natural gas 8900kcal/ m³, Propane gas 22500kcal/ m³, Town gas 3500kca/ m³. Specifications are approximate. We reserve the right to change specifications.



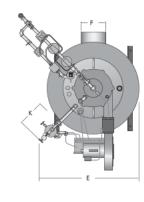
Side View







Gas head Pivots 360°C



Top View

FB-A/FB-B (4-60BHP)

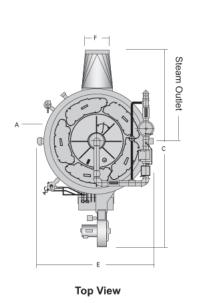


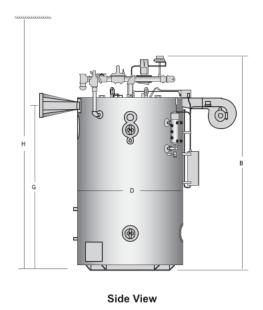


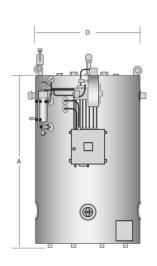
Dimensions and Weights FB-A, FB-B are approximately the same.

Model FB-A、FB-B	4	6	10	15	20	30	40	50	60	80	100	130	150
Heights and widths													
A Boiler Height IN	47	57	63	69	72	82	73.5	87	93	93	99	117	117
MM	1194	1448	1600	1753	1829	2083	1867	2210	2362	2362	2515	2889	2972
B Boiler Height With Trim IN	65	75	80.5	86.5	92.5	102	94	106.5	120	122	125	135	141
& Fuel Train Assembly MM	1651	1905	2045	2197	2350	2591	2388	2705	3048	3099	3175	3430	3582
C Overall Depth Stack IN	44	44	46	47	60	67	73	78	78	90	120	134	136
To Burner Fan Housing MM	1118	1118	1168	1194	1524	1702	1854	1981	1981	2280	3043	3395	3455
D Boiler Diameter IN	26	26	28	30	39	46	55	55	55	63	68	76	76.5
MM	660	660	710	760	990	1170	1400	1400	1400	1588	1740	1936	1943
E Overall Width IN	33	33	33.5	35.5	43	49	57	57	57	67	75	83	84.5
With Water Column MM	838	838	851	902	1091	1244	1448	1448	1448	1702	1905	2108	2146
F Flue Outlet Diameter IN	6	6	6	8	10	12	12	12	12	14	14	16	16
MM	152	152	152	203	254	305	305	305	305	356	356	400	407
G To Center of Flue Outlet IN	42	52	58	63	66	73.5	63	79	85	95	95	107	110
MM	1070	1320	1473	1600	1675	1867	1606	2007	2195	2423	2423	2723	2794
Minimum Clearance									'				
H Clearance Required for Burner IN	72	82	86	92	96	106	106	114	124	126	129	151	157
Removed form Ceiling to Ground MM	1828	2083	2184	2337	2438	2692	2692	2896	3150	3200	3277	3835	3988
Boiler Front IN	41	41	41	41	41	41	41	41	41	41	41	41	41
MM	1041	1041	1041	1041	1041	1041	1041	1041	1041	1041	1041	1041	1041
Boiler Back/Side IN	36	36	36	36	36	36	36	36	36	36	36	36	36
MM	915	915	915	915	915	915	915	915	915	915	915	915	915
Water Content													
US.GAL	14	16	24	39	77	170	220	245	270	375	580	876	904
LITERS	53	61	91	148	292	643	835	927	1022	1419	2195	3317	3423
Weight												'	
Gross Shipping Weight LB	1400	1700	2000	2280	3400	4780	6400	6526	7280	10506	11608	15418	15550
KG	640	770	910	1035	1545	2170	2905	2963	3305	4770	5270	7000	7060

Note: Specifications are approximate. We reserve right to change specifications.







Front View

FB-A/FB-B (80-150HP)



Fulton

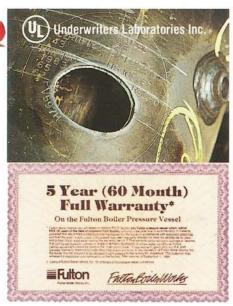
Polished Stainless Jacket

A relatively inexpensive option for the customer who requires a smart look. No matter if it's a stainless jacket or a complete skid-mounted unit(s) with boiler, return system, blowdown, and any other special equipment, Fulton can build to any industrial process application.

Fulton Warranty No.1 in the Industry!

All Fulton Boilers are completely trimmed packaged boilers.

No additional fuel train items or electrical wiring is needed. Boiler is supplied with installation manual, ready for quick installation by the Fulton representative.





Sales Representative



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Fulton China LLC is part of the Fulton Companies manufactures high grade industrial/commercial heat transfer products