

# MODEL CFV

## Vertical ClearFire



### *Dimensions and Ratings*

Figure 1. CFV Dimension Drawing

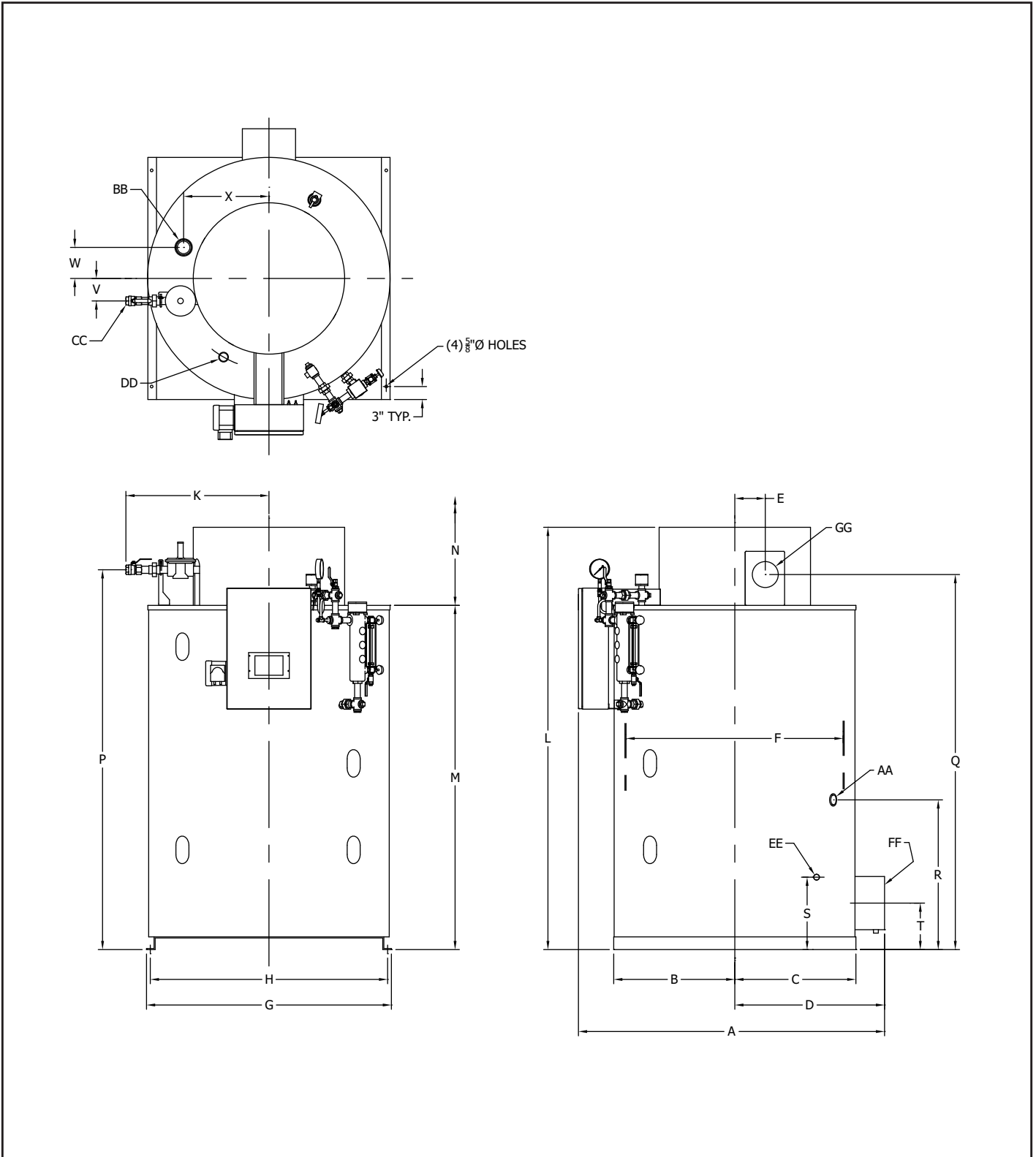


Table 1. CFV Dimensions

	Dimension	Boiler Horsepower								
		9.5	10	15	20	25	30	40	50	60
<b>LENGTHS</b>										
Overall	A	45	45	45	53	53	61	61	70	70
Centerline to Base Front	B	16	16	16	19.5	19.5	23.5	23.5	28	28
Centerline to Base Rear	C	16	16	16	19.5	19.5	23.5	23.5	28	28
Centerline to Stack Outlet	D	22.5	22.5	22.5	24.5	24.5	30.5	30.5	34.5	34.5
Centerline to Combustion Air Inlet	E	4	4	4	4	4	4	7	7	7
Boiler I.D.	F	27	27	27	34	34	42	42	51	51
<b>WIDTHS</b>										
Base, Overall	G	32.5	32.5	32.5	39.5	39.5	47.5	47.5	57	57
Base, c/l to c/l Holes	H	30.75	30.75	30.75	37.75	37.75	45.75	45.75	55	55
Centerline to Gas Inlet	K	26	26	26	26	26	26	33	33	33
<b>HEIGHTS</b>										
Overall	L	85	85	85	84	91	86	95.5	100	106
Vessel	M	74	74	74	73	79	76	81	82	88
Top of Boiler Clearance	N	24	24	24	24	24	24	36	36	36
Floor to Gas Inlet	P	78	78	78	77	83	80	87.5	90	96
Floor to Air Inlet	Q	78	78	78	76	83	80	87.5	89	95
Floor to Feedwater Inlet	R	30	30	30	27	27	29.5	29.5	34.5	34.5
Floor to Drain/Blowdown	S	12	12	12	11	11	14	14	16	16
Floor to Stack Outlet	T	9	9	9	8.5	8.5	10	10	11.5	11.5
<b>BOILER CONNECTIONS</b>										
Horizontal Centerline to Gas Inlet	V	5	5	5	5	5	5	5	5.5	5.5
Horizontal Centerline to Steam Outlet	W	2	2	2	5	5	6.5	6.5	7.25	7.25
Vertical Centerline to Steam Outlet	X	11.5	11.5	11.5	14	14	17.5	17.5	19.75	19.75
Feedwater	AA	1	1	1	1	1	1	1	1-1/4	1-1/4
Steam Outlet	BB	1-1/2	1-1/2	1-1/2	1-1/2	2	2	2	3	3
Gas Inlet	CC	1	1	1	1	1	1-1/4	1-1/4	1-1/2	1-1/2
Surface Blowoff	DD	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
Drain / Blowdown	EE	1	1	1	1	1	1	1	1-1/4	1-1/4
Stack O.D.	FF	6	6	6	6	6	8	8	10	10
Combustion Air Inlet	GG	4	4	4	4	4	6	6	8	8
<b>WEIGHTS - LBS</b>										
Water Weight (Normal)		730	730	710	1195	1365	1840	2050	2715	3090
Approx. Dry Weight		1950	1950	2000	2540	2780	3540	4030	5280	5740

Note: Dimensions subject to change.

**Table 2. CFV Ratings**

Boiler H.P.	9.5	10	15	20	25	30	40	50	60
<b>Ratings</b>									
Rated Capacity - Steam (lbs/hr from & at 212°F)	328	345	518	690	863	1,035	1,380	1,725	2,070
Output (1000 Btu/hr)	318	335	502	669	837	1,004	1,339	1,674	2,008
Fireside Heating Surface (sq.ft.)	65	65	84	128	159	165	258	312	388
<b>Approximate Fuel Consumption At Rated Capacity</b>									
Natural Gas Input (cfh) - 150# Steam <sup>A</sup>	393	413	620	826	1,033	1,240	1,653	2,066	2,479
Power Requirements - 60Hz	(Single Phase, 115 VAC)								
Blower Motor Size (Watts) <sup>B</sup>	335	335	335	335	335	335	750	1,200	1,200

Notes:

A. Input calculated at nominal 81% efficiency for 1000 Btu gas content

B. For altitudes above 700 ft, contact your local Cleaver Brooks authorized representative for verification of blower motor size.