

**Boiler Data Sheet**  
MODEL BHP

Maximum allowable working pressure 270 psig

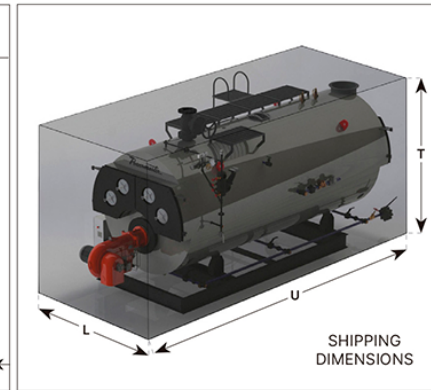
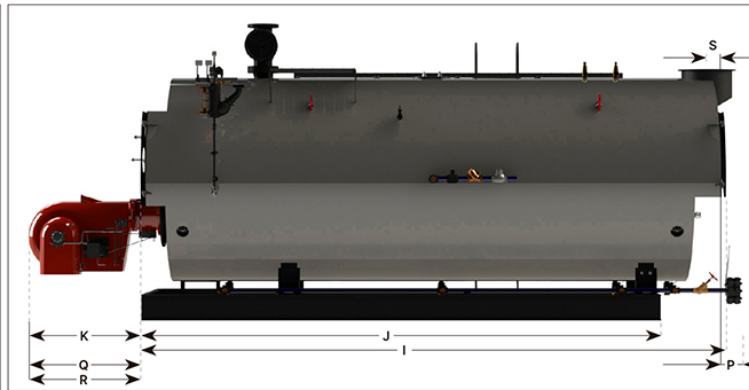
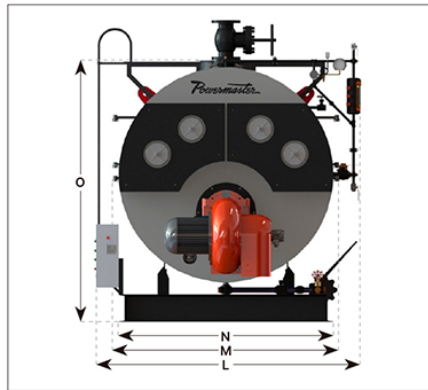
NOMINAL CAPACITIES		700	800	900	1000	1100	1200	1300	1400	1500
Steam generation from and at 212 °F & 1 atm.	lb/hr	24,150	27,600	31,050	34,500	37,950	41,400	44,850	48,300	51,750
Heating Surface	SQFT	3,500	3,792	4,032	4,160	4,477	4,800	5,122	5,474	5,895
Boiler Output	MBH	23,434	26,781	30,129	33,477	36,824	40,172	43,520	46,867	50,215

FIRING RATE FOR BURNER SELECTION*		700	800	900	1000	1100	1200	1300	1400	1500
No. 2 Oil - Diesel ( 140,000 BTU/gal )	gal/hr	209.2	239.1	269.0	298.8	328.8	358.7	388.6	418.5	448.3
Natural Gas ( 1,000 BTU/ft <sup>3</sup> )	ft <sup>3</sup> /hr	29,292	33,476	37,661	41,845	46,030	50,214	54,399	58,583	62,768
LP Gas ( 91,500 BTU/gal )	gal/hr	320.1	365.9	411.6	457.3	503.1	548.8	594.5	640.3	686.0
Heavy Oil ( 150,000 BTU/gal )	gal/hr	195.3	223.2	251.1	279.0	306.9	334.8	362.7	390.6	418.5

WEIGHTS		700	800	900	1000	1100	1200	1300	1400	1500
Empty Boiler	lb	82,093	92,279	95,118	98,633	102,200	106,252	111,263	115,004	124,402
Flooded Boiler	lb	129,133	146,975	151,801	156,103	161,156	172,022	181,054	187,238	200,140



DIMENSIONS		700	800	900	1000	1100	1200	1300	1400	1500
I	Boiler Length	ft	26.05	26.12	26.12	26.12	26.21	26.38	26.54	27.26
J	Base Length	ft	23.56	23.56	23.56	23.72	23.72	23.79	23.88	24.51
K	Burner Length (estimated) **	ft	5.09	5.31	5.31	5.31	6.92	6.86	6.76	6.69
L	Total Width	ft	10.79	11.32	11.52	11.58	11.71	12.34	12.50	12.60
M	Limit Width***	ft	9.61	10.14	10.33	10.40	10.53	10.89	11.15	11.42
N	Base Width	ft	8.96	9.48	9.68	9.74	9.88	10.24	10.66	10.76
O	Total Height (to steam outlet)	ft	10.66	11.22	11.38	11.75	11.88	12.27	12.57	12.80
P	Back access clearance for maintenance	ft	4.48	4.74	4.84	4.87	4.94	5.12	5.33	5.38
Q	Front access clearance for maintenance	ft	4.48	4.74	4.84	4.87	4.94	5.12	5.33	5.38
R	Front flux tubes exchange clearance	ft	22.28	22.28	22.28	22.28	22.28	22.21	22.11	22.57
S	Smoke stack center to back of boiler	ft	0.10	0.10	0.00	-0.10	-0.10	-0.13	-0.10	-0.03
T	Shipping height	ft	11.15	11.68	11.84	12.17	12.34	12.70	12.93	13.19
U	Estimated shipping length (includes burner)	ft	32.38	32.78	32.94	33.10	34.88	34.97	35.14	35.86

CONNECTIONS		700	800	900	1000	1100	1200	1300	1400	1500
Smoke Stack Diameter	in	28	30	32	34	36	37	39	40	41
Main steam outlet diameter	in	6	6	8	8	8	8	10	10	10
Boiler feedwater diameter	in	2	2.5 ****	2.5 ****	3	3	3	3	3	3
Bottom blowdown diameter	in	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
Level Control blowdown diameter	in	1	1	1	1	1	1	1	1	1
Surface blowdown diameter	in	1	1	1	1	1	1	1	1	1

FOUNDATION BASES		700	800	900	1000	1100	1200	1300	1400	1500
Total width of base	ft	9.68	10.20	10.40	10.47	10.60	10.96	11.22	11.38	11.48
Distance between bases	ft	7.71	8.23	8.43	7.71	7.84	8.20	8.46	8.63	8.73
Width of each bases	ft	0.98	0.98	0.98	1.38	1.38	1.38	1.38	1.38	1.38
Length of bases	ft	24.21	24.21	24.21	24.38	24.38	24.38	24.44	24.54	25.16
Height of bases	ft	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66

\* The actual firing rate depends on fuel quality, burner selection and adjustment, combustion controls, operating pressure, etc. For an estimated calculation of a specific configuration contact your Powermaster salesman.

\*\* Dimensions varies based on burner selection.

\*\*\* Width for freight clearance.

\*\*\*\* The boiler shell has a 2.5 in coupling. If the boiler is acquired with feed-water piping it will be delivered with a reduction and 2 in valves.

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Creator: SZ  
Revision: LN

Powermaster Boilers reserves the right to make modifications to this sheet without notice. All dimensions are approximate and indicative only.

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