

Boiler Data Sheet

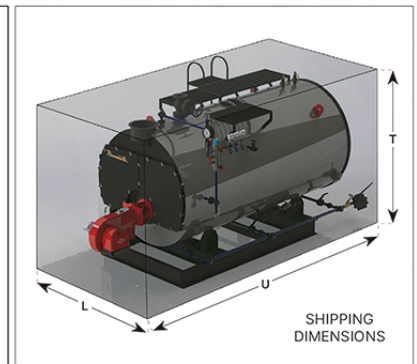
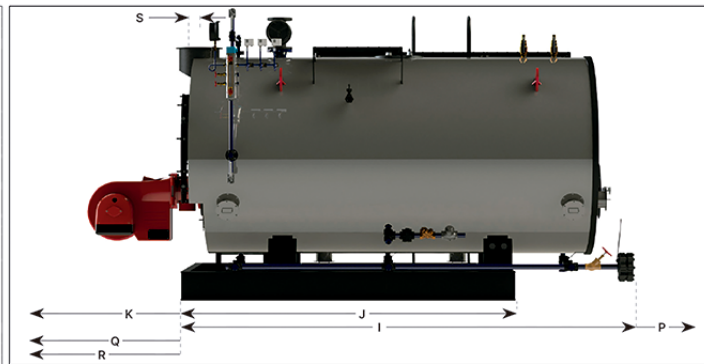
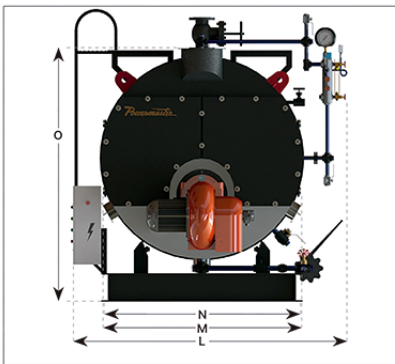
MODEL BHP

Maximum allowable working pressure 150 psig

NOMINAL CAPACITIES		80	100	125	150	200
Steam generation from and at 212 °F & 1 atm.	lb/hr	2,760	3,450	4,313	5,175	6,900
Boiler Output	MBH	2,678	3,348	4,185	5,022	6,695

FIRING RATE FOR BURNER SELECTION*		80	100	125	150	200
No. 2 Oil - Diesel (140,000 BTU/gal)	gal/hr	23.9	29.9	37.4	44.8	59.8
Natural Gas (1,000 BTU/ft3)	ft3/hr	3,348	4,185	5,231	6,277	8,369
LP Gas (91,500 BTU/gal)	gal/hr	36.6	45.7	57.2	68.6	91.5
Heavy Oil (150,000 BTU/gal)	gal/hr	22.3	27.9	34.9	41.8	55.8

WEIGHTS		80	100	125	150	200
Empty Boiler	lb	10,121	10,121	12,039	13,702	16,076
Flooded Boiler	lb	18,439	18,439	21,786	25,073	29,787



DIMENSIONS		80	100	125	150	200
I Boiler Length	ft	11.98	11.98	12.57	12.89	13.55
J Base Length	ft	9.22	9.22	9.68	9.97	10.50
K Burner Length (estimated) **	ft	1.90	1.90	3.25	3.81	3.84
L Total Width	ft	7.87	7.87	8.14	8.46	8.92
M Limit Width***	ft	6.10	6.10	6.43	6.73	7.19
N Base Width	ft	5.77	5.77	6.07	6.40	6.86
O Total Height (to steam outlet)	ft	7.12	7.12	7.58	7.94	8.40
P Back access clearance for maintenance	ft	3.28	3.28	3.28	3.28	3.28
Q Front access clearance for maintenance	ft	2.89	2.89	3.03	3.20	3.43
R Front flux tubes exchange clearance	ft	7.19	7.19	7.61	7.94	8.60
S Smoke stack center to back of boiler	ft	-0.10	-0.10	-0.10	-0.10	-0.03
T Shipping height	ft	7.81	7.81	8.27	8.60	9.06
U Estimated shipping length (includes burner)	ft	13.88	13.88	15.81	16.70	17.42

CONNECTIONS	TYPE		80	100	125	150	200
Smoke Stack Diameter	Flange	in	12	12	14	14	16
Main steam outlet diameter	Flange-ANSI B16.5 class 300	in	3	3	4	4	4
Boiler feedwater diameter	Flange-ANSI B16.5 class 150	in	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2
Bottom blowdown diameter	Flange-ANSI B16.5 class 150	in	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2
Level Control blowdown diameter	Flange-ANSI B16.5 class 150	in	1	1	1	1	1
Surface blowdown diameter	Flange-ANSI B16.5 class 150	in	1	1	1	1	1

FOUNDATION BASES		80	100	125	150	200
Total width of base	ft	6.50	6.50	6.79	7.12	7.58
Distance between bases	ft	4.53	4.53	4.82	5.15	5.61
Width of each bases	ft	0.98	0.98	0.98	0.98	0.98
Length of bases	ft	9.88	9.88	10.33	10.63	11.15
Height of bases	ft	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

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Creator: SZ

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

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