

Powermaster Series WB-A2-3P-HW

Three Pass Wet Back A2 Hot Water Boilers

Maximum allowable working pressure 50 psig



Boiler Data Sheet

MODEL BHP

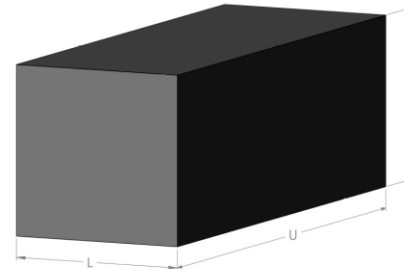
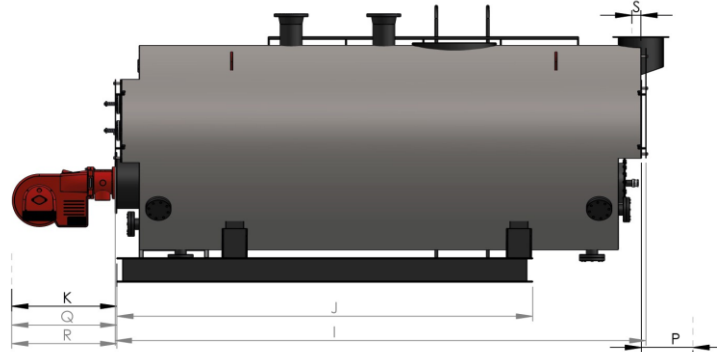
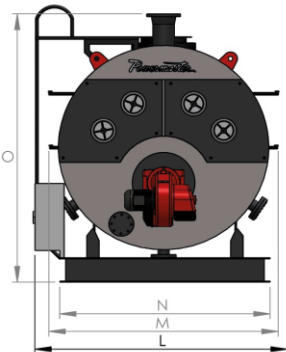
NOMINAL CAPACITIES	80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
Heating Output MBH	2,678	3,348	4,185	5,022	6,696	8,370	10,044	11,718	13,392	16,740	20,087	23,435	26,783	30,131	33,479	36,827	40,175	43,523	46,871	50,219
Heating Output KW	785	981	1,226	1,471	1,962	2,452	2,943	3,433	3,924	4,905	5,885	6,866	7,847	8,828	9,809	10,790	11,771	12,752	13,733	14,714
Heating Output Mcal/hr	675	844	1,055	1,265	1,687	2,109	2,531	2,953	3,374	4,218	5,062	5,905	6,749	7,592	8,436	9,280	10,123	10,967	11,810	12,654

FIRING RATE FOR BURNER SELECTION*

No. 2 Oil - Diesel (140,000 BTU/gal)	gal/hr	23.9	29.9	37.4	44.8	59.8	74.7	89.7	104.6	119.6	149.4	179.3	209.2	239.1	269.0	298.9	328.8	358.7	388.6	418.5	448.3
Natural Gas (1,000 BTU/ft3)	ft3/hr	3,348	4,185	5,231	6,277	8,369	10,461	12,554	14,646	16,738	20,923	25,107	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	36.6	45.7	57.2	68.6	91.5	114.3	137.2	160.1	182.9	228.7	274.4	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	22.3	27.9	34.9	41.8	55.8	69.7	83.7	97.6	111.6	139.5	167.4	195.3	223.2	251.1	279.0	306.9	334.8	362.7	390.6	418.5

WEIGHTS

Empty Boiler	lb	12,064	13,334	16,204	17,705	21,713	25,276	28,583	32,035	35,607	41,376	48,810	55,753	61,169	63,504	66,516	69,624	72,830	76,575	79,860	83,714
Flooded Boiler	lb	20,558	22,487	27,584	30,148	38,105	46,096	52,252	59,785	66,716	77,025	92,473	104,010	117,037	121,373	125,183	129,817	139,804	147,639	153,369	159,917



DIMENSIONS	80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	
T Boiler Length	ft	12.50	13.42	14.37	14.53	16.54	17.36	17.78	20.34	20.93	22.44	23.88	26.05	26.12	26.12	26.21	26.21	26.38	26.54	27.26	
J Base Length	ft	9.84	10.73	11.38	11.61	13.12	13.88	14.21	18.18	18.67	20.08	21.52	23.59	23.59	23.59	23.75	23.75	23.85	23.92	24.54	
K Burner length (estimated) **	ft	2.40	2.40	2.85	2.85	3.64	3.64	3.64	5.41	5.25	5.38	5.38	5.09	5.31	5.31	6.92	6.92	6.86	6.76	6.69	
L Total Width	ft	7.15	7.22	7.58	7.81	8.30	8.83	9.25	9.25	9.68	10.01	10.50	10.79	11.35	11.52	11.58	11.71	12.07	12.34	12.50	12.60
M Limit Width***	ft	5.97	6.04	6.40	6.63	7.12	7.64	8.07	8.07	8.50	8.83	9.32	9.61	10.17	10.33	10.40	10.53	10.89	11.15	11.32	11.42
N Base Width	ft	5.31	5.38	5.74	5.97	6.46	6.99	7.41	7.41	7.84	8.17	8.66	8.96	9.51	9.68	9.74	9.88	10.24	10.50	10.66	10.76
O Total Height (to HW outlet flanges)	ft	7.35	7.45	7.97	8.27	8.76	9.32	9.74	9.74	10.33	10.66	11.15	11.52	12.04	12.20	12.53	12.73	13.09	13.32	13.48	13.58
P Back access clearance for maintenance	ft	2.66	2.69	2.87	2.99	3.23	3.49	3.71	3.71	3.92	4.08	4.33	4.48	4.76	4.84	4.87	4.94	5.12	5.25	5.33	5.38
Q Front access clearance for maintenance	ft	2.66	2.69	2.87	2.99	3.23	3.49	3.71	3.71	3.92	4.08	4.33	4.48	4.76	4.84	4.87	4.94	5.12	5.25	5.33	5.38
R Front flux tubes exchange clearance	ft	10.27	11.18	11.94	12.10	14.01	14.60	14.93	17.52	17.68	19.13	20.54	22.28	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	0.23	0.30	0.16	0.16	0.16	0.16	0.23	0.16	0.16	0.16	0.10	0.10	0.10	0.00	-0.10	-0.10	-0.13	-0.13	-0.10	-0.03
T Shipping height	ft	7.35	7.45	7.97	8.27	8.76	9.32	9.74	9.74	10.33	10.66	11.15	11.52	12.04	12.20	12.53	12.73	13.09	13.32	13.48	13.58
U Estimated shipping length (includes burner)	ft	15.29	16.14	17.75	17.91	20.83	21.75	22.18	26.61	27.10	28.81	30.38	32.38	32.78	32.94	33.10	34.88	34.97	35.14	35.24	35.86

CONNECTIONS

Smoke Stack Diameter	in	12	12	14	14	16	18	20	22	24	26	28	30	32	34	36	37	39	40	41
Hot Water Outlet to Circuit Diameter	in	3	4	4	6	6	8	8	8	10	10	12	12	12	12 ****	14 ****	14 ****	14 ****	14 ****	14 ****
Hot Water Inlet from Circuit Diameter	in	3	4	4	6	6	8	8	8	10	10	12	12	12	12 ****	14 ****	14 ****	14 ****	14 ****	14 ****
Air Purge Diameter	in	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Bottom Drain Diameter	in	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2	2	2	2	2	2	2	2
Maximum Safety Valves Output Diameter	in	1 1/4	1 1/4	1 1/2	1 1/4	1 1/4	1 1/2	2	2	2	2	2	2	2	2	2	2	2	2	2

FOUNDATION BASES

Total width of base	ft	6.04	6.10	6.46	6.69	7.19	7.71	8.14	8.14	8.56	8.89	9.38	9.68	10.24	10.40	10.47	10.60	10.96	11.22	11.38	11.48
Distance between bases	ft	4.07	4.13	4.49	4.72	5.22	5.74	6.17	6.17	6.59	6.92	7.41	7.71	8.27	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	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	1.38	1.38	1.38	1.38	1.38	1.38	1.38
Length of bases	ft	10.50	11.38	12.04	12.27	13.78	14.53	14.86	18.83	19.32	20.73	22.18	24.25	24.25	24.25	24.41	24.41	24.41	24.51	24.57	25.20
Height of bases	ft	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66

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* 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
 **** Adaptable to hydraulic pilot

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