

Powermaster Series WB-A2-4P-HW

Four Pass Wet Back A2 Hot Water Boilers

Maximum allowable working pressure 150 psig



Boiler Data Sheet

MODEL BHP

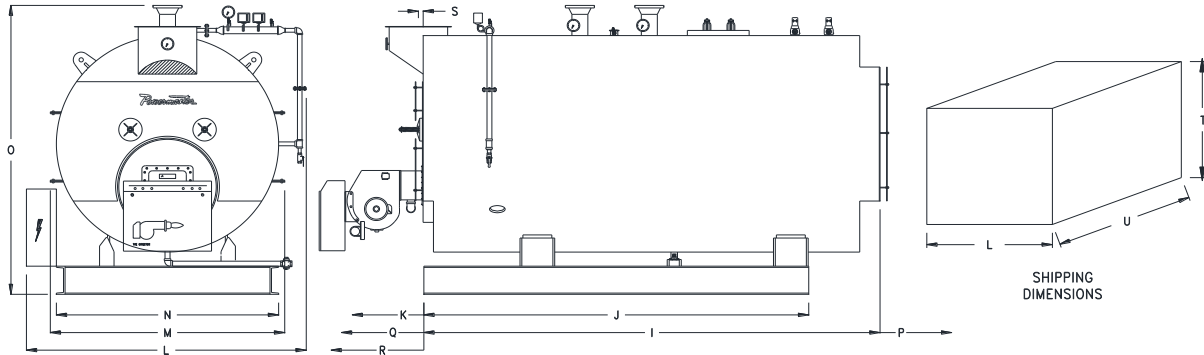
NOMINAL CAPACITIES		80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000
Heating Output	MBH	2,678	3,348	4,185	5,022	6,696	8,370	10,044	11,718	13,392	16,740	20,087	23,435	26,783	30,131	33,479
Heating Output	KW	785	981	1,226	1,471	1,962	2,452	2,943	3,433	3,924	4,905	5,885	6,866	7,847	8,828	9,809
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

FIRING RATE FOR BURNER SELECTION*

		80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000
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
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
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
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

WEIGHTS

		80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000
Empty Boiler	lb	12,877	14,663	16,548	17,893	21,819	26,865	30,188	33,428	38,316	48,891	57,064	67,716	74,557	86,334	90,472
Flooded Boiler	lb	20,342	23,636	27,449	29,623	36,680	45,049	51,030	57,813	64,390	81,720	95,166	111,385	123,929	142,124	150,003



DIMENSIONS		80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000
I Boiler Length	ft	10.67	11.75	12.30	12.53	13.77	14.60	15.09	16.08	17.52	18.44	19.55	20.96	21.72	23.03	23.95
J Base Length	ft	8.53	9.42	9.84	10.02	11.02	11.68	12.07	12.86	14.01	16.34	17.42	18.70	19.42	20.77	21.85
K Burner Length (estimated)**	ft	2.26	2.26	2.76	2.76	3.54	3.48	3.38	5.18	5.09	5.02	4.99	5.15	5.09	5.09	5.09
L Total Width	ft	7.31	7.52	7.91	8.10	8.60	9.07	9.48	9.74	9.87	10.60	10.99	11.52	11.91	12.17	12.24
M Limit Width***	ft	6.30	6.50	6.89	7.09	7.58	8.04	8.46	8.73	8.86	9.58	9.97	10.50	10.89	11.15	11.25
N Base Width	ft	5.48	5.69	6.07	6.27	6.78	7.24	7.64	7.91	8.04	8.76	9.15	9.68	10.07	10.33	10.43
O Total Height (to HW outlet/flanges)	ft	7.55	7.78	8.30	8.56	9.06	9.55	9.97	10.24	10.53	11.25	11.68	12.20	12.63	12.86	13.22
P Back access clearance for maintenance	ft	2.74	2.84	2.99	3.14	3.39	3.62	3.81	3.97	4.02	4.36	4.59	4.82	5.05	5.15	5.22
Q Front access clearance for maintenance	ft	2.74	2.84	2.99	3.14	3.39	3.62	3.81	3.97	4.02	4.36	4.59	4.82	5.05	5.15	5.22
R Front flux tubes exchange clearance	ft	8.30	9.38	9.81	10.01	11.09	11.68	12.01	12.99	14.11	14.86	15.94	17.03	17.62	18.96	19.88
S Smoke stack center to back of boiler	ft	-0.23	-0.23	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.10	-0.10	-0.10	0.00	0.10
T Shipping height	ft	7.55	7.78	8.30	8.56	9.06	9.55	9.94	10.24	10.53	11.25	11.68	12.20	12.63	12.86	13.22
U Shipping length estimated (includes burner)	ft	13.09	14.17	15.26	15.45	17.49	18.24	18.67	21.39	22.77	23.62	24.70	26.28	26.94	28.28	29.20

CONNECTIONS

		80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000
Smoke Stack Diameter	in	12	12	14	14	16	18	20	20	22	24	26	28	30	32	34
Hot Water Outlet to Circuit Diameter	in	3	4	4	6	6	8	8	8	8	10	10	12	12	12	12 ****
Hot Water Inlet from Circuit Diameter	in	3	4	4	6	6	8	8	8	8	10	10	12	12	12	12 ****
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
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
Maximum Safety Valves Output Diameter	in	3/4	1	1	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	2	2	2

FOUNDATION BASES

		80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000
Total width of base	ft	6.20	6.41	6.79	6.99	7.50	7.96	8.37	8.63	8.76	9.48	9.88	10.40	10.79	11.06	11.15
Distance between bases	ft	4.23	4.44	4.82	5.02	5.53	5.99	6.40	6.66	6.79	7.51	7.91	8.43	8.83	9.09	8.40
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	0.98	1.38
Length of bases	ft	9.19	10.07	10.50	10.67	11.67	12.34	12.73	13.52	14.67	16.99	18.08	19.36	20.08	21.42	22.51
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

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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.

Date: OCT 11, 2022

** Dimensions varies based on burner selection

Creator: SZ

*** Width for freight clearance

Revision: LN

**** Adaptable to hydraulic project

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