

Powermaster Series WB-A2-4P-HW

Four Pass Wet Back A2 Hot Water Boilers

Maximum allowable working pressure 100 psig



Boiler Data Sheet

MODEL BHP

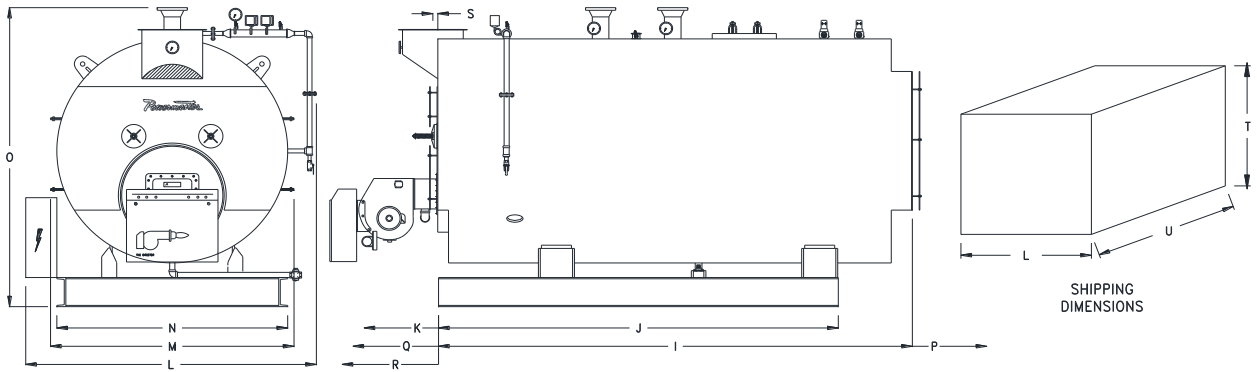
NOMINAL CAPACITIES		80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000
Heating Output	MBH	2,678	3,348	4,185	5,022	6,696	8,370	10,044	11,718	13,392	16,740	20,087	23,435	26,783	30,131	33,479
Heating Output	KW	785	981	1,226	1,471	1,962	2,452	2,943	3,433	3,924	4,905	5,885	6,866	7,847	8,828	9,809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

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

Empty Boiler	lb	11,784	13,411	15,159	16,431	19,903	22,972	28,060	31,090	34,421	41,771	49,115	57,011	62,977	73,709	79,267
Flooded Boiler	lb	19,264	22,401	26,078	28,179	34,800	41,198	48,925	55,497	60,634	74,754	87,391	101,022	112,722	129,903	139,039



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 front 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

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	1	1	1 1/4	1 1/4	1 1/2	1 1/4	1 1/2	1 1/2	2	2	2	2	2	2	2

FOUNDATION BASES

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

Termodinámica Enica S.A. de C.V. TEN-840430-465
 Av. Dr. Jiménez Cantú Late 2.5 s/n, Plaza Antigua Edif 3 Ofna. 3-16
 Atizapán de Zaragoza, Edo. de México, CP. 52937
 T. +52(55) 5393 5711 - F. +52(55) 5393 9607

* 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 project

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