

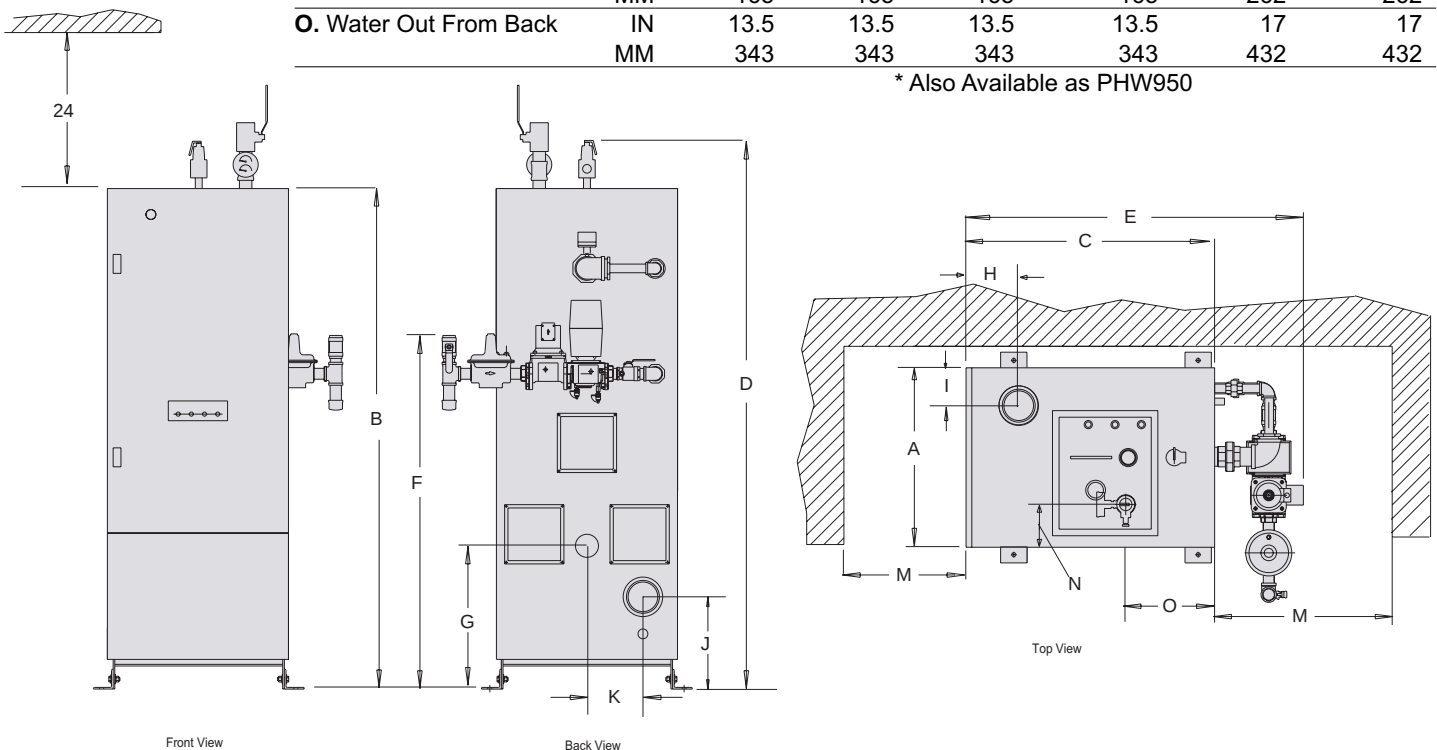
Product Data Submittal

Fulton PulsePak Models PHW300, PHW500, PHW750, PHW1000, PHW1400 and PHW2000

Fulton Pulse Combustion Hydronic Heating Boilers

Dimensions	Model		PHW300	PHW500	PHW750	PHW1000*	PHW1400	PHW2000
A. Boiler Width	IN		27.5	27.5	27.5	27.5	33.6	33.6
	MM		699	699	699	699	855	855
B. Boiler Height	IN		64.8	64.8	76	76	81	81
	MM		1,646	1,646	1,930	1930	2057	2057
C. Boiler Depth	IN		37.8	37.8	37.8	37.8	50	55
	MM		959	959	959	959	1270	1397
D. Boiler Height w/trim	IN		72	72	83.3	83.3	89	89
	MM		1829	1829	2115	2115	2261	2261
E. Boiler Depth w/trim	IN		51.3	51.3	51.3	51.3	63.5	69
	MM		1303	1303	1303	1303	1616	1753
F. Gas Inlet Height	IN		44.5	44.5	54.5	54.5	62.5	54.3
	MM		1130	1130	1384	1384	1588	1378
G. Return Water Inlet	IN		21.4	21.4	21.4	21.4	29.8	29.8
	MM		543	543	543	543	756	756
H. Air Inlet Depth	IN		8	8	8.5	8.5	11.5	16
	MM		203	203	216	216	292	406
I. Air Inlet Width	IN		6	6	6	6	7.5	26.9
	MM		152	152	152	152	191	683
J. Exhaust Outlet Height	IN		14	14	14	14	19.1	13.8
	MM		356	356	356	356	486	349
K. Exhaust Outlet Width	IN		8	8	8	8	9	9
	MM		203	203	203	203	229	229
L. Min. Clearance to Walls	IN		1	1	1	1	1	1
	MM		26	26	26	26	26	26
M. Min. Clearance to Front and Rear	IN		32	32	32	32	38	38
	MM		813	813	813	813	965	965
N. Water Out From Side	IN		6.5	6.5	6.5	6.5	10.3	10.3
	MM		165	165	165	165	262	262
O. Water Out From Back	IN		13.5	13.5	13.5	13.5	17	17
	MM		343	343	343	343	432	432

* Also Available as PHW950



Specifications

Model		PHW300	PHW500	PHW750	PHW1000 ²	PHW1400	PHW2000
Fuel		Natural Gas or Propane See Note 1	Natural Gas or Propane See Note 1	Natural Gas or Propane See Note 1	Natural Gas or Propane See Note 1	Natural Gas or Propane See Note 1	Natural Gas or Propane See Note 1
Input	BTU/Hr.	300,000	500,000	750,000	1,000,000	1,400,000	2,000,000
	KCAL/Hr.	75,600	126,000	189,000	252,000	353,000	503,992
Output	BTU/Hr. 120°F in—140°F out	270,000	440,000	637,500	840,000	1,204,000	1,700,000
	KCAL/Hr. 49°C in— 60°C out	68,000	110,885	160,698	211,700	303,420	428,393
Fuel Consumption @ rated capacity:							
Natural Gas	FT ³ /Hr.	300	500	750	1000	1400	2000
	M ³ /Hr.	8.5	14.2	21.2	29.3	39.6	56.6
Propane	FT ³ /Hr.	120	200	300	400	560	720
	M ³ /Hr.	3.4	5.7	8.5	11.4	15.9	20.4
Unit Size/Output	BHP	8	13	19	25	36	50
	KW	79	130	190	247	357	493
Electrical Requirements	Amps						
	120V,60 CY.1 Phase	4	4	4	4	4	13
	240V,50/60 CY.1 Phase	2	2	2	2	2	7
MAWP	PSI	60/160	60/160	60/160	60/160	60/160	60/160
	BAR	4.1/11.0	4.1/11.0	4.1/11.0	4.1/11.0	4.1/11.0	4.1/11.0
Water Content	Gal	34	34	42	42	80	75
	Liters	129	129	159	159	303	284
Boiler Connection Sizes							
Safety Valve Inlet	IN	0.75	0.75	0.75	0.75	1	1.25
	MM	20	20	20	20	26	31.8
Safety Valve Outlet	IN	1	1	1	1	1.25	1.50
	MM	25.4	25.4	25.4	25.4	31.8	38.1
Water Inlet & Outlet	IN	2	2	2	2	2.5	4 (Flanged)
	MM	50.8	50.8	50.8	50.8	63.5	104
Air Inlet	IN	3	3	4	4	4	6
	MM	76.2	76.2	102	102	102	152
Gas Inlet	IN	1	1	1	1.25	1.25	1.5
	MM	25.4	25.4	25.4	31.8	38	38
Exhaust Outlet	IN	4	4	4	4	4	6
	MM	102	102	102	102	102	152
Approximate Weights							
Dry Weight	LB	1,395	1,395	1,800	1,800	2,230	2,900
	KG	633	633	816	816	1,148	1,315
Shipping Weight	LB	1,720	1,720	2,020	2,020	2,900	3,620
	KG	780	780	916	916	1,315	1,642
Operating Weight	LB	1,680	1,680	2,150	2,150	3,195	3,500
	KG	737	737	975	975	1,450	1,588
Floor Loading	LB/FT ²	235	235	300	300	275	275
	KG/M ²	1,116	1,116	1,425	1,425	1,306	1,306

NOTES:

1. The turndown ratio for modulated PROPANE fired boilers is 3:1.
2. Also Available as PHW950 (Input: 950,000; Output: 800,000 BTU/Hr.)
3. ASME Code limits the outlet water temperature to a max. operating temperature of 200°F for Stainless Steel tailpipes and 240°F for Carbon Steel tailpipes.

Air Intake Supply & Exhaust Vent Piping+

	No. of Feet of Standard Dia. Pipe	No. of 90° Elbows
Min. length air intake supply piping	10 (3.1m)	0
Max. length air intake supply piping	35 (10.7m)	4
Min. length exhaust vent piping	10 (3.1m)	0
Max. length exhaust vent piping	35 (10.7m)	4

+Screened Termination Couplings inapplicable.

Installation Notes

1. Natural Gas Pressure Required: 7" W.C.
2. Propane Gas Pressure Required: 11" W.C.
3. For the mufflers to attenuate the boiler noise level as shown on the Sound Pressure Level Values bulletin, the muffler should be installed within 8 feet of the boiler.
4. Any pulse boiler can have the venting extended to 100 ft. and 6 elbows by increasing the vent size from 3" to 4" or 4" to 6" and 6" to 8". The exception is the PHW1400, which must be upsized from 4" to 6" AFTER the first 10 feet and then may extend an additional 40 feet.
5. One condensate drainer can be used for up to 8 boilers. The condensate drainer requires a fresh water connection. The connection is a 1/4" compression fitting, and the water pressure shall be less than 100 PSI.



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