

COLUMBIA

MPH SERIES



A.S.M.E.
Construction

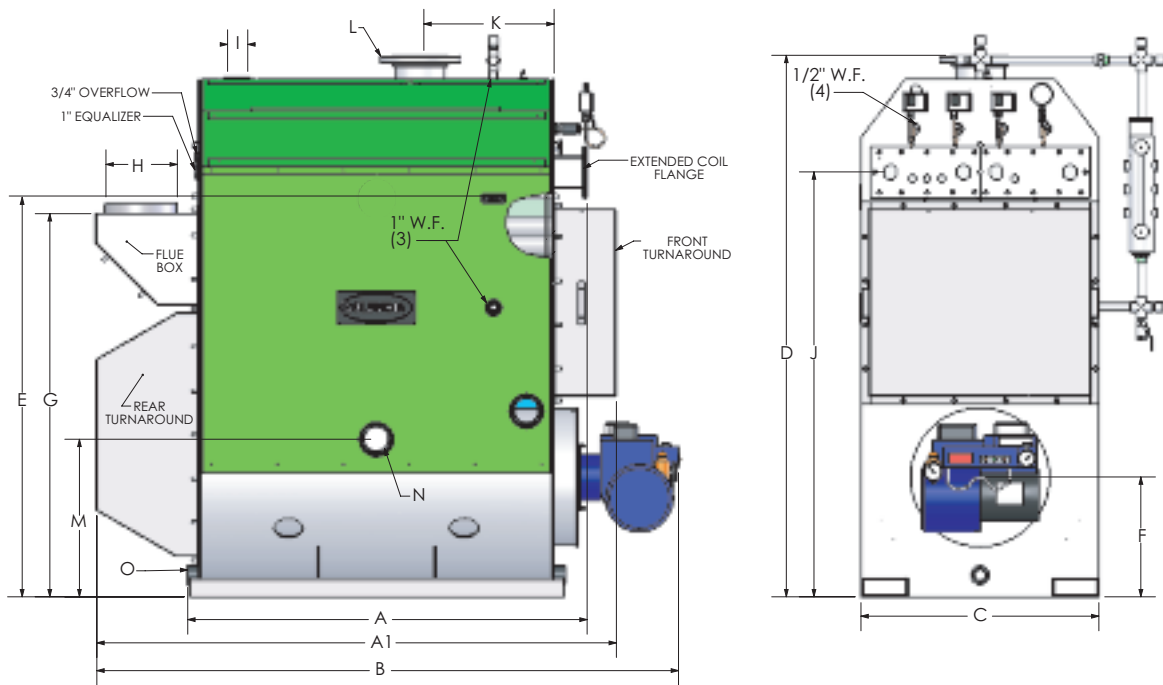
MPH Features

- 32-1/2" Compact width permits installation through narrow doors and passageways MPH 5-80
- Inverted skid base for forklift handling with low profile
- Lifting holes for rigging into tough spots
- Bottom hand holes for thorough cleanout
- Top hand hole for tube inspection
- Cleanout door on flue box
- Trim for 15 psi steam or 30 psi water
- Low/High/Low standard burner operation MPH 30-125
- Modulating burner standard MPH 150, on/off burner MPH 5-20
- Natural gas, propane, methane, biogas, oil, or dual fuel firing
- Optional hot water coils 300 to 2460 G.P.H.
- Overflow tapping for steam unit
- Individual tappings for steam controls
- 83%+ efficiency. Economizer package available for high efficiency
- Wet base design
- Three pass, firetube construction
- Welded tubes are schedule 40 pipe for long life
13 Gauge rolled tubes are easily replaced
- Fully packaged or knocked down
- Forced draft firing, no special vent requirements
- Constructed in accordance with requirements of Section IV of the Boiler and Pressure Vessel Code
- All boilers are designed, inspected and stamped for conformity to the requirements of the National Board of Boiler and Pressure Vessel Inspectors and packaged to meet CSD-1 safety requirements.

Since 1936

You can do BETTER with Columbia

GOOD people. **BETTER** Boilers. **BEST** value.



MPH SPECIFICATIONS AND DATA - 15 PSI STEAM / 30 PSI WATER

MODEL NO.	MPH-5	MPH-10	MPH-15	MPH-20	MPH-30	MPH-40	MPH-50	MPH-60	MPH-70	MPH-80	MPH-90	MPH-100	MPH-125	MPH-150
Horsepower	5	9.5	15	20	30	40	50	60	70	80	90	100	125	150
Gas Input (BTU/hour)	210,000	399,000	630,000	840,000	1,260,000	1,680,000	2,100,000	2,520,000	2,940,000	3,360,000	3,780,000	4,200,000	5,250,000	6,300,000
Oil Input (Gals./hour)	1.5	2.85	4.5	6	9	12	15	18	21	24	27	30	38	46
Gross Output (BTU/hour)	172,200	331,170	516,600	688,800	1,033,200	1,377,600	1,722,000	2,066,400	2,410,800	2,755,200	3,099,600	3,444,000	4,305,000	5,166,000
Gross Output Steam (Lbs./hour)	173	320	518	690	1,035	1,380	1,725	2,070	2,415	2,760	3,105	3,450	4,312	5,174
Heating Surface - Sq. Ft. - Pipe	29.3	45.6	61.3	88.5	120.6	159.0	205.4	255.0	299.9	341.7	379.4	439.9	590.0	590.0
Heating Surface - Sq. Ft. - Tube	N/A	N/A	N/A	78.5	105.7	138.8	178.4	221.0	260.0	295.8	379.4	379.4	508.0	508.0
Furnace Volume - Cu. Ft.	1.6	1.9	2.5	4.1	5.6	7.5	7.5	9.3	13.4	15.3	15.3	15.3	20.9	20.9
Water Capacity Steam - Gal.	45	53	70	126	121	161	190	238	291	333	559	559	602	602
Steam Volume - Cu. Ft.	1.8	3	4	6.1	6.7	8.9	8.9	11.2	13.0	14.9	10.9	10.9	17.9	17.9
Water Capacity Flooded - Gal.	59	75	100	172	171	227	257	321	388	444	640	640	683	683
Qty. & Length of 2" - 13 ga. Tubes	(22) 25-1/8"	(30) 30-1/8"	(30) 40-1/8"	(42) 34-1/8"	(54) 37-1/4"	(54) 49-1/4"	(72) 49-1/4"	(72) 61-1/4"	(72) 71-1/4"	(72) 81-1/4"	(95) 81-1/4"	(95) 81-1/4"	(129) 81-1/4"	(129) 81-1/4"
Hand Hole Quantity & Size	N/A	N/A	N/A	(3) 3x3-3/4"	(3) 3x3-3/4"	(3) 3x3-3/4"	(3) 3x3-3/4"	(3) 3x3-3/4"	(3) 3x3-3/4"	(3) 3x3-3/4"	(3) 3x3-3/4"	(3) 3x3-3/4"	(5) 3x3-3/4"	(5) 3x3-3/4"
Standard Burner Electrical	115/1	115/1	115/1	115/1	115/1	115/1	230/1 †	230/1 †	230/3 †	230/3 †	230/3 †	230/3 †	230/3 †	230/3 †
WATER COIL DATA														
Coil Model Number (1-1/4" Outlet)	#2/3	#2/3	#2/3	N2	N3	N4	N4	N5	N5	N5	N5	N5	NA	NA
GPM Single Coil - 100° Rise	5	5	5	6.5	10	15	15	21	21	21	21	21	NA	NA
GPM Twin Coil - 100° Rise	N/A	N/A	N/A	13	20	30	30	41	41	41	41	41	NA	NA
BOILER DIMENSIONS (INCHES)														
A Bare Boiler (coil plate to drain)	28.3	33.3	43.3	39.3	42.6	54.6	54.6	66.6	76.6	86.6	83.6**	83.6**	95.1***	95.1***
Burner Plate to Rear T/A	39	45.75	55.75	51.25	54	66	66.875	78	90	99.375	101.375	101.375	101.5	101.5
A1 (Turnaround to Turnaround)	41.4	46.4	56.4	56.0	59.0	71.0	71.0	83.0	94.0	104.0	105.3	105.3	110.5	110.5
B Length (Turnaround to Burner)	52.3	58.5	69	69.0	80.0	92.0	99.9	111.9	128.5	136.8	137.8	137.8	147.0	160.0
C Boiler Width	21.6	21.6	21.6	32.5	32.5	32.5	32.5	32.5	32.5	32.5	40.5	40.5	51.0	51.0
D Height Supply Outlet	53.7	56.5	56.5	63.3	65.5	65.5	73.9	73.9	77.9	77.9	81.9	81.9	88.5	88.5
E Minimum Safe Water Level	41.5	42.1	42.1	47.1	48.6	48.6	54.6	54.6	58.1	58.1	64.0	64.0	67.5	67.5
F Burner Opening to Floor	12.9	12.9	12.9	15.4	16.4	16.4	16.4	16.4	17.4	17.4	17.4	17.4	19.8	19.8
G Flue Box Height	36	39.6	39.6	45.6	47.5	47.5	52.5	52.5	56.1	56.1	62.0	62.0	66.8	66.8
H Flue Outlet Diameter	8	8	8	10	10	10	10	10	12	12	14	14	14	14
I Safety Valve Opening	1 NPT	1 NPT	1 NPT	1.5 NPT	1.5 NPT	1.5 NPT	2.0 NPT	2.0 NPT	2.0 NPT	2.0 NPT	2.5 NPT	2.5 NPT	2.5 NPT	2.5 NPT
J Coil Connections to Floor	43.3	46.2	46.2	50.6	52.1	52.1	58.1	58.1	61.6	61.6	N/A	N/A	N/A	N/A
K Supply Outlet Location	9.6	14.8	19.8	11.3	14.3	15.3	18.3	18.3	20.3	23.3	23.3	23.3	23.4	23.4
L Supply Outlet Size	3 NPT	3 NPT	3 NPT	4 NPT	4 NPT	4 NPT	6 Flange	6 Flange	6 Flange	6 Flange	8 Flange	8 Flange	8 Flange	8 Flange
M Return Inlet Height	15.1	15.3	15.3	21.6	21.6	21.6	21.6	22.4	23.9	21.6	26.6	26.6	27.8	27.8
N Return Inlet Size	1.5 NPT	1.5 NPT	1.5 NPT	3 NPT	3 NPT	3 NPT	3 NPT	3 NPT	3 NPT	3 NPT	4 NPT	4 NPT	4 NPT	4 NPT
O Drain Size	1.25 NPT	1.25 NPT	1.25 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT
Boiler Dry Weight - Lbs.	733	1035	1283	1915	2159	2666	3158	3790	4326	4851	6230	6230	7900	7900

*updated 09/25/09, MPH-90/100 is the new design
 **measured from drain outlet to burner mount

***measured from stripped down boiler

† control circuit requires 115/1 electrical



Manufactured in the USA by
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