

# COLUMBIA

## MPH SERIES



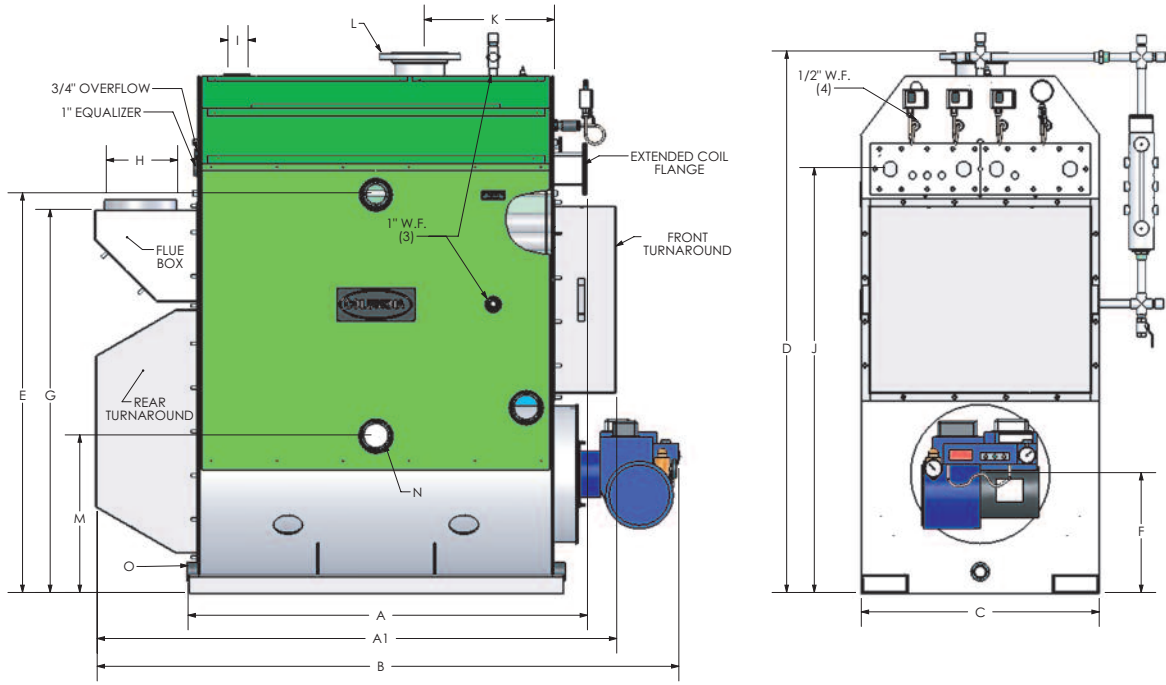
### MPH Features

- 32-1/2" Compact width permits installation through narrow doors and passageways (MPH 20-80)
- Inverted skid base for forklift handling and air flow 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)
- Natural gas, propane, oil, or dual fuel firing
- Optional hot water coils 780 to 2460 G.P.H.
- Overflow tapping for steam unit
- Individual tapping for steam controls
- 83%+ efficiency. Up to 90%+ efficiency with H.E. trim package
- 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.

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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-20	MPH-30	MPH-40	MPH-50	MPH-60	MPH-70	MPH-80	MPH-90	MPH-100	MPH-125
Horsepower	20	30	40	50	60	70	80	90	100	125
Gas Input (BTU per hour)	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
Oil Input (Gals. per hour)	6	9	12	15	18	21	24	27	30	38
Gross Output (BTU per hour)	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
Gross Output Steam (Lbs per hour)	690	1,035	1,380	1,725	2,070	2,415	2,760	3,105	3,450	4,312
Heating Surface - Sq. Ft. - Pipe	88.5	120.6	159.0	205.4	255.0	299.9	341.7	439.9	439.9	590.0
Heating Surface - Sq. Ft. - Tube	78.5	105.7	138.8	178.4	221.0	260.0	295.8	379.4	379.4	508.0
Furnace Volume - Cu. Ft.	4.1	5.6	7.5	7.5	9.3	13.4	15.3	15.3	15.3	20.9
Water Capacity Steam - Gal.	126	121	161	190	238	291	333	559	559	549
Steam Volume - Cu. Ft.	6.1	6.7	8.9	8.9	11.2	13.0	14.9	10.9	10.9	17.9
Water Capacity Flooded - Gal.	172	171	227	257	321	388	444	640	640	683
Number & Length 2" Sch. 40 Pipe	(42) 33"	(54) 37"	(54) 49"	(72) 49"	(72) 61"	(72) 71"	(72) 81"	(95) 81"	(95) 81"	(129) 80"
Hand Hole # & Size	(3) 3x3.75	(5) 3x3.75	(5) 3x3.75	(5) 3x3.75	(5) 3x3.75	(5) 3x3.75	(5) 3x3.75	(3) 3x3.75	(3) 3x3.75	(5) 3x3.75

**TANKLESS COIL DATA**

Coil Model Number (1" Outlet)	N2	N3	N4	N4	N5	N5	N5	NA	NA	NA
GPM Single Coil - 100° Rise	6.5	10	15	15	21	21	21			
GPM Twin Coil - 100° Rise	13	20	25	30	41	41	41			

**BOILER DIMENSIONS**

A Bare Boiler (coil plate to drain outlet)	39.3	42.6	54.6	54.6	66.6	76.6	86.6	83.6**	83.6**	95.1***
A1 (Turnaround to Turnaround)	56.0	59.0	71.0	71.0	83.0	94.0	104.0	105.3	105.3	110.5
B Length (Turnaround to Gas Burner)	69.0	80.0	92.0	99.9	111.9	128.5	136.8	137.8	137.8	147.0
C Boiler Width	32.5	32.5	32.5	32.5	32.5	32.5	32.5	40.5	40.5	51.0
D Height Supply Outlet	63.3	64.0	64.0	73.9	73.9	77.9	77.9	81.9	81.9	88.5
E Minimum Safe Water Level	47.1	47.1	47.1	54.6	54.6	58.1	58.1	64.0	64.0	67.5
F Burner Opening to Floor	15.4	16.4	16.4	16.4	16.4	17.4	17.4	17.4	17.4	19.8
G Flue Box Height	45.6	46.0	46.0	52.5	52.5	56.1	56.1	62.0	62.0	66.8
H Flue Outlet Diameter	10.0	10.0	10.0	10.0	10.0	12.0	12.0	14.0	14.0	14.0
I Safety Valve Opening	1.5 NPT	1.5 NPT	1.5 NT	2.5 NPT	2.5 NPT	2.5 NPT	2.5 NPT	2.5 NPT	2.5 NPT	2.5 NPT
J Coil Connections to Floor	50.6	50.6	50.6	58.1	58.1	61.6	61.6	N/A	N/A	N/A
K Supply Outlet Location	11.3	14.3	15.3	18.3	18.3	20.3	23.3	23.3	23.3	23.4
L Supply Outlet Size	4 NPT	4 NPT	4 NPT	6 Flange	6 Flange	6 Flange	6 Flange	8 Flange	8 Flange	8 Flange
M Return Inlet Height	21.6	21.6	21.6	21.6	22.4	23.9	21.6	26.6	26.6	27.8
N Return Inlet Size	3 NPT	3 NPT	3 NPT	3 NPT	3 NPT	3 NPT	3 NPT	4 NPT	4 NPT	4 NPT
O Drain Size	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	1915	2159	2666	3158	3790	4326	4851	6230	6230	7900

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

\*\*\*measured from stripped down boiler



Manufactured in the USA by  
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