



**Typical Specifications For
MicoFlame - Hydronic Heating Boilers
Models MFH 60, Through MFH 600**

The heating boiler shall be a CAMUS MicoFlame model _____ having an input rating of _____ Btu (kw) /hr. and _____ Btu (kw)/hr output for hydronic heating.

The heating boiler shall be design/certified by CSA International and shall meet the requirements of ANSI Z21.13 & CSA 4.9. The heating boiler shall be optionally vented as a Category I conventional appliance or a category III appliance.

Combustion Chamber:

The combustion chamber shall be fully enclosed by high temperature fiberboard refractory, which is of modular interlocking construction for ease of replacement.

Burner:

The burner shall be constructed of high heat resistant ceramic tile supported in a steel casing. The burner shall provide equal distribution of heat through the entire heat exchanger.

Heat Exchanger:

The heat exchanger shall be suitable for a m.a.w.p. of 160 psig (1100 kPa) and shall be of a two pass design employing integrally finned 7/8" copper tubes . All castings shall be bronze. A pressure relief valve of _____ lb/hr shall be furnished with the heater. There shall be ready access to the heat exchanger to permit internal and external inspection and cleaning of the tubes.

Controls:

Standard controls to include factory mounted thermometers for sensing inlet and outlet temperatures, hi-limit and operator controls, on/off switch and 24 VAC class 2 transformer and light display package. Optional SmartFlame 780007 electronic proportional integrated combination limit/operator control to be accurate to 1°F (0.5°C) .The control shall also provide readouts of inlet/outlet temperatures and delta T as well as accumulated run hours. The control shall have 3 preset modes to allow operation of the heater as hydronic heating, DHW or remote enable.

On/off switch, and full diagnostic light package are included. Flow switch is included loose.

Firing Mode:

The heater shall operate as on/off or optionally two stage.

Gas Train:

The gas train shall consist of a combination control incorporating a main manual gas valve, dual main valve seats, a pilot valve and pilot regulator.

Ignition Module:

The ignition module shall provide for intermittent ignition and continuous retrieval. Trial for ignition shall be 15 seconds with 5 minutes between retrievals.

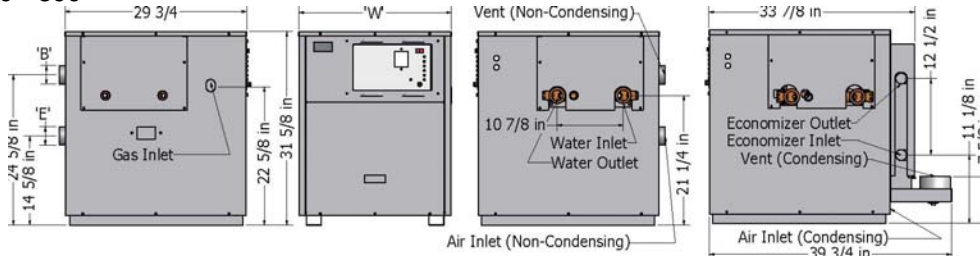
External Jacket and Fasteners:

The external jacket shall be of stainless and enameled steel panels assembled with crimpite non-strip self tap screws.

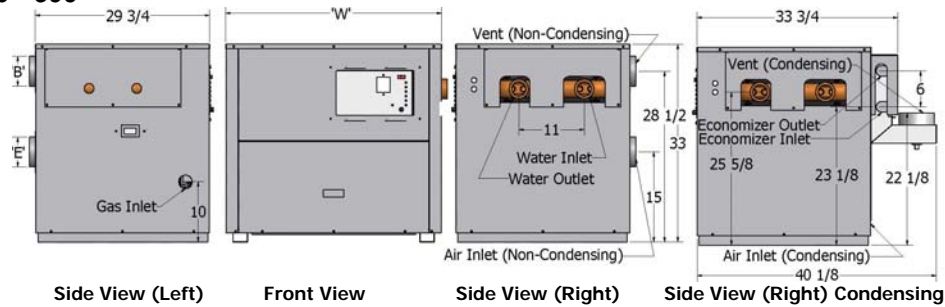
SUBMITTAL DATA SHEET – MICROFLAME

Engineer: _____ Job Location: _____ Date: _____
 Prepared by: _____ Buyer's Name: _____ Quote #: _____
 Job Name: _____ Buyer's Address: _____

Model 60 - 300



Model 400 - 600



Dimensions and Specifications

Model	W'	Connection	Water	Gas	Outdoor	Condensing	Standard or	Air Inlet	Model	Input BTUH	Output BTUH		Input kW	Output kW		Approx. Weight LBS. Non Condensing	Approx. Weight LBS. Condensing
											Non Condensing	Condensing		Non Condensing	Condensing		
MFNH060	18 3/4	1 1/2	1/2	3	3	3	3	3	MFNH060	60,000	51,000	57,000	17.6	14.9	16.7	190.0	230.0
MFNH100	18 3/4	1 1/2	1/2	3	3	4	3	3	MFNH100	100,000	85,000	95,000	29.3	24.9	27.8	195.0	235.0
MFNH150	18 3/4	1 1/2	1/2	3	3	4	3	3	MFNH150	150,000	127,500	142,500	43.9	37.3	41.7	200.0	240.0
MFNH200	18 3/4	1 1/2	3/4	4	4	5	4	4	MFNH200	200,000	170,000	190,000	58.6	49.8	55.6	210.0	250.0
MFNH250	25	1 1/2	3/4	4	4	5	4	4	MFNH250	250,000	212,500	237,500	73.2	62.2	69.5	225.0	285.0
MFNH300	25	1 1/2	3/4	5	5	6	5	5	MFNH300	300,000	255,000	285,000	87.8	74.7	83.5	240.0	290.0
MFNH400	31 1/2	2	1	5	5	6	5	5	MFNH400	400,000	340,000	380,000	117.1	99.6	111.3	290.0	310.0
MFNH500	31 1/2	2	1	6	6	7	6	6	MFNH500	500,000	425,000	475,000	146.4	124.4	139.1	305.0	345.0
MFNH600	36 1/2	2	1	6	6	7	6	6	MFNH600	600,000	510,000	570,000	175.7	149.3	166.9	360.0	400.0

Head Loss and Flow Vs Temperature Rise

Model	10 °F		20 °F		30 °F	
	USGPM	ΔP ft.	USGPM	ΔP ft.	USGPM	ΔP ft.
MFNH060	10.2	0.03	5.1	0.01	3.4	0.005
MFNH100	17.0	0.07	8.5	0.02	5.7	0.010
MFNH150	25.5	0.20	12.8	0.04	8.5	0.030
MFNH200	34.0	0.40	17.0	0.08	11.3	0.050
MFNH250	42.5	0.65	21.3	0.16	14.2	0.100
MFNH300	51.0	1.50	25.5	0.49	17.0	0.190
MFNH400	68.0	2.00	34.0	0.55	22.7	0.260
MFNH500	85.0	3.00	42.5	0.76	28.3	0.390
MFNH600	102.0	4.30	51.0	1.15	34.0	0.550

Model # _____ # Of Units _____ Type of Gas _____
 Total Input _____ BTU/hr Flow _____ USGPM @ Allowable Pressure Drop _____ ft.
 Total Output _____ BTU/hr Recovery Rate _____ USGPH @ _____ °F
 Optional Accessories _____