



**Typical Specifications For:
MicoFlame II Hydronic Heating Boilers
Models MFH 800, Through MFH 2000**

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 SmartFlame 780014 combination limit/operator control accurate to 1⁰F (0.5⁰C). The control shall also provide readouts of boiler target, differential and inlet/outlet temperatures as well as accumulated runtime. On/off switch, and full diagnostic light package shall be provided. The complete control package shall be mounted on the front panel with hinged door for easy access to all control modules. A flow switch shall be provided loose. The control shall have 6 preset modes to allow operation of the heater as hydronic heating with outdoor reset, DHW or remote enable.

Firing Mode:

The heater shall operate as on/off or optionally two-stage (All Models), three-stage (Models 1200 to 2000) or four-stage (Models 1200 to 2000).

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:

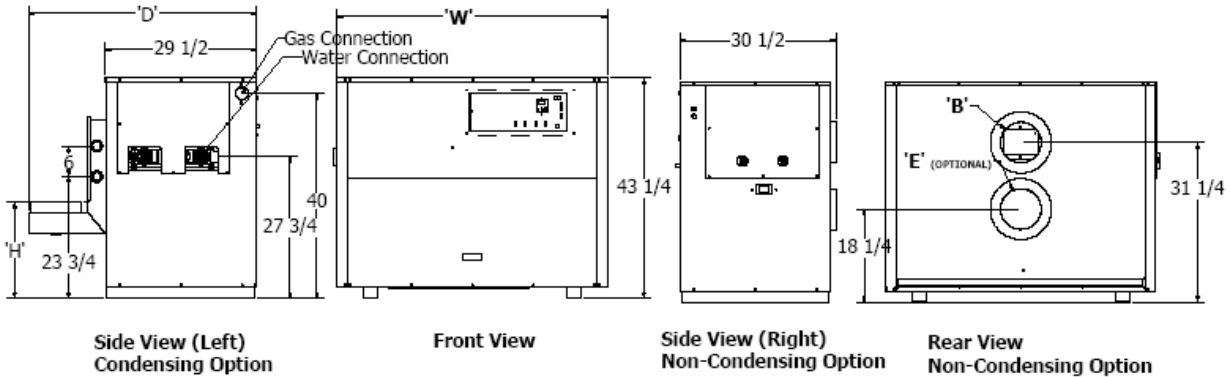
The ignition module shall provide for intermittent ignition and continuous retrieval. Trial for ignition shall be 15 seconds with 5 minutes between retrievals.

External Jacket and Fasteners:

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

SUBMITTAL DATA SHEET – MICROFLAME II

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



Dimensional and Specifications

Model	W'	D'	H'	Water Connection	Gas Connection	B' Dia. Venting			E' Dia. Air Inlet
						Outdoor	Sidewall or Condensing	Standard	
MFNH800	45%	44½	18¾	2½	1	8	8	10	8
MFNH1000	52%	44½	18¾	2½	1¼	8	8	10	8
MFNH1200	62	44½	23¾	2½	1¼	10	10	12	10
MFNH1400	71¾	46½	23¾	2½	1¼	10	10	12	10
MFNH1600	80%	46½	23¾	2½	1½	12	12	14	12
MFNH1800	89%	46½	23¾	2½	1½	12	12	14	12
MFNH2000	99	46½	23¾	2½	1½	12	12	14	12

Model	Input BTUH	Output BTUH Non Condensing	Output BTUH Condensing	Input kW	Output kW Non Condensing	Output kW Condensing	Approx. Weight LBS. Non Condensing	Approx. Weight LBS. Condensing
MFNH800	800,000	680,000	760,000	234.2	199.1	222.5	500.0	580.0
MFNH1000	1,000,000	850,000	950,000	292.8	248.9	278.2	610.0	690.0
MFNH1200	1,200,000	1,020,000	1,140,000	351.4	298.7	333.8	732.0	828.0
MFNH1400	1,400,000	1,190,000	1,330,000	409.9	348.4	389.4	854.0	966.0
MFNH1600	1,600,000	1,360,000	1,520,000	468.5	398.2	445.1	976.0	1,104.0
MFNH1800	1,800,000	1,530,000	1,710,000	527.0	448.0	500.7	1,098.0	1,242.0
MFNH2000	2,000,000	1,700,000	1,900,000	585.6	497.8	556.3	1,220.0	1,380.0

Head Loss and Flow Vs Temperature Rise

Model	20 °F		30 °F		35 °F	
	USGPM	ΔP ft.	USGPM	ΔP ft.	USGPM	ΔP ft.
MFNH800	66.6	2.8	44.4	1.1	38.0	0.8
MFNH1000	83.3	4.9	55.5	2.00	47.6	1.5
MFNH1200	100.0	6.9	66.7	3.10	57.1	2.4
MFNH1400	*	*	77.8	4.30	66.7	3.4
MFNH1600	*	*	88.9	5.40	76.2	4.0
MFNH1800	*	*	100.0	6.90	85.7	5.1
MFNH2000	*	*	*	*	95.2	6.2

* Contact Camus for recommendation.

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 _____