Typical Specifications For
Modulating MicoFlame – Domestic Hot Water Supply
Models MF(N),(P)W 800 – 2000, Non-Condensing
Models MF(N),(P)W 802 – 2002, Condensing

The water heater shall be a CAMUS MicoFlame model _____ having an input rating of _____ Btu (kw) /hr. and _____Btu (kw)/hr output for domestic hot water and shall be operated on Natural gas or L.P. gas. The water heater shall be capable of firing down to 40% of rated input.

The water heater shall be design/certified by CSA International and shall meet the requirements of ANSI Z21.10.3b-2008 & CSA 4.3b-2008. The water heater shall be optionally vented as a Category I conventional appliance or a category II condensing 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 temperature Stainless Steel with knitted metal fiber to provide modulating firing rates. The burner shall provide equal distribution of heat through the entire heat exchanger. A window view port shall be provided for visual inspection of the water heater during firing.

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 hi-limit and operator controls, on/off switch and 24 VAC class 2 transformer and light display package. The SmartFlame 78-0017 electronic modulating control to be accurate to 1^{o}F (0.5^{o}C) .The control shall also provide readouts of inlet/outlet temperatures and delta T as well as accumulated run hours. The control shall have 8 preset modes to allow operation of the heater as hydronic heating, DHW or remote operation through an analog 0-10VDC signal.

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

Firing Mode:
The heater shall operate as a fully modulating unit with a 5:2 turn down ratio (Models 800 - 2000).

Gas Train:
The gas train shall consist of a one to one air/gas ratio control valve with venturi, dual main valve seats, a pilot valve and pilot regulator.

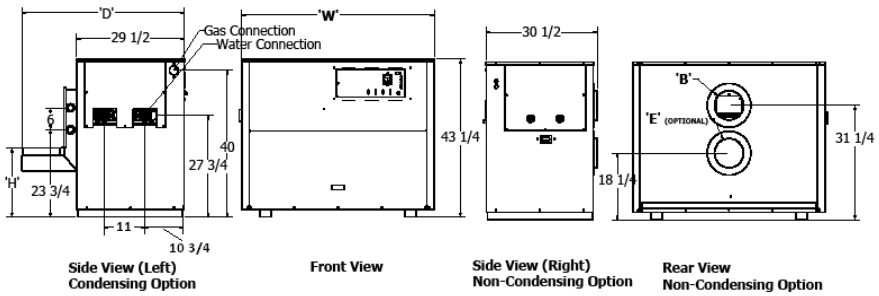
Ignition Module:
The ignition module shall provide for proved ignition of intermittent pilot and continuous retrial. Trial for ignition shall be a minimum of 15 seconds with 5 minutes between retrials.

External Jacket and Fasteners:
The external jacket shall be of stainless and enameled steel panels assembled with crimptite non-strip self tap screws.

SUBMITTAL DATA SHEET – MICOFLAME

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

Model 800 – 2000 Non-Condensing, 802 – 2002 Condensing



*** 60 Ft. Equivalent, Appliance may be supplied with two openings that can be combined into this size.**

**** Non-Condensing models shipped with standard vent opening size unless sidewall vent is specified**

***** Contact Camus for recommendation**

Venting

Model	'B' Dia. Venting**			'E' Dia.
	Outdoor	Sidewall or Condensing*	Standard	Air Inlet*
800/802	8	8	10	8
1000/1002	8	8	10	8
1200/1202	10	10	12	10
1400/1402	10	10	12	10
1600/1602	12	12	14	12
1800/1802	12	12	14	12
2000/2002	12	12	14	12

Input & Output Range

Model	Input Range [kBTU/hr x 100]	Input Range [kW]	Input [BTU/hr]	Input [kW]	Non-Condensing Output [BTU/hr]	Non-Condensing Output [kW]	Condensing Output [BTU/hr]	Condensing Output [kW]
800/802	320 - 800	93.7 - 234.3	800,000	234.3	680,000	199.1	760,000	222.5
1000/1002	400 - 1000	117.1 - 292.8	1,000,000	292.8	850,000	248.9	950,000	278.2
1200/1202	480 - 1200	140.5 - 351.3	1,200,000	351.4	1,020,000	298.7	1,140,000	333.8
1400/1402	560 - 1400	164.0 - 410.0	1,400,000	410.0	1,190,000	348.5	1,330,000	389.5
1600/1602	640 - 1600	187.4 - 468.5	1,600,000	468.5	1,360,000	398.2	1,520,000	445.1
1800/1802	720 - 1800	210.8 - 527.1	1,800,000	527.1	1,530,000	448.0	1,710,000	500.7
2000/2002	800 - 2000	234.2 - 585.7	2,000,000	585.7	1,700,000	497.8	1,900,000	556.4

Heat Exchanger Head Loss & Flow

Model	20°F		30°F		35°F	
	USGPM	ΔP-ft.	USGPM	ΔP-ft.	USGPM	ΔP-ft.
800/802	66.6	2.8	44.4	1.1	38.0	0.8
1000/1002	83.3	4.9	55.5	2.0	47.6	1.5
1200/1202	100.0	6.9	66.7	3.1	57.1	2.4
1400/1402	***	***	77.8	4.3	66.7	3.4
1600/1602	***	***	88.9	5.4	76.2	4.0
1800/1802	***	***	100.0	6.9	85.7	5.1
2000/2002	***	***	***	***	95.2	6.2

Dimensions and Specifications

Model	'W'	'D'	'H'	Water Connection	Gas Connection	Approx. Weight Non-Condensing [lbs.]	Approx. Weight Condensing [lbs.]
800/802	45 3/4	44 1/2	18 3/4	2 1/2	1	500	580
1000/1002	52 3/4	44 1/2	18 3/4	2 1/2	1 1/4	610	690
1200/1202	62	44 1/2	23 1/4	2 1/2	1 1/4	732	828
1400/1402	71 1/4	46 1/2	23 1/4	2 1/2	1 1/4	854	966
1600/1602	80 3/4	46 1/2	23 1/4	2 1/2	1 1/4	976	1,104
1800/1802	89 3/4	46 1/2	23 1/4	2 1/2	1 1/4	1,098	1,242
2000/2002	99	46 1/2	23 1/4	2 1/2	1 1/4	1,220	1,380

Recovery Capacity

	120°F Rise	67°C Rise	100°F Rise	56°C Rise	80°F Rise	44°C Rise	70°F Rise	39°C Rise
Model	GPH	LPH	GPH	LPH	GPH	LPH	GPH	LPH
800/802	664	2513	797	3015	996	3769	1138	4308
1000/1002	830	3141	996	3769	1245	4711	1422	5385
1200/1202	996	3769	1195	4523	1494	5654	1707	6461
1400/1402	1162	4397	1394	5277	1743	6596	1991	7538
1600/1602	1328	5026	1593	6031	1991	7538	2276	8615
1800/1802	1494	5654	1792	6785	2240	8481	2560	9692
2000/2002	1660	6282	1991	7538	2489	9423	2845	10769

Model # _____ # Of Units _____ Type of Gas _____

Total Input _____BTU/hr Flow _____USGPM @ Allowable Pressure Drop _____ft.

Total Output _____BTU/hr Recovery Rate _____USGPH @ _____^{0}F