



**Typical Specifications For:
MicoFlame Grande Domestic Hot Water Supply
Models MFW 2000, Through MFW 4000**

The domestic hot water boiler shall be a CAMUS MicoFlame model _____ having an input rating of _____ Btu (kW) /hr. and having a recovery capacity of _____ GPH (LPH) at 100°F (56°C) for DHW.

The domestic hot water boiler shall be design/certified by CSA International and shall meet the requirements of ANSI Z21.10 & CSA 4.3. The heater 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. Maximum input per burner shall be 1,000,000 Btu/hr.

Heat Exchanger:

The heat exchanger shall be suitable for a maximum allowable working pressure (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 1°F (0.5°C). 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, two-stage, three stage or four-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. Each ignition module shall control a maximum input of 1,000,000 Btu/hr.

External Jacket and Fasteners:

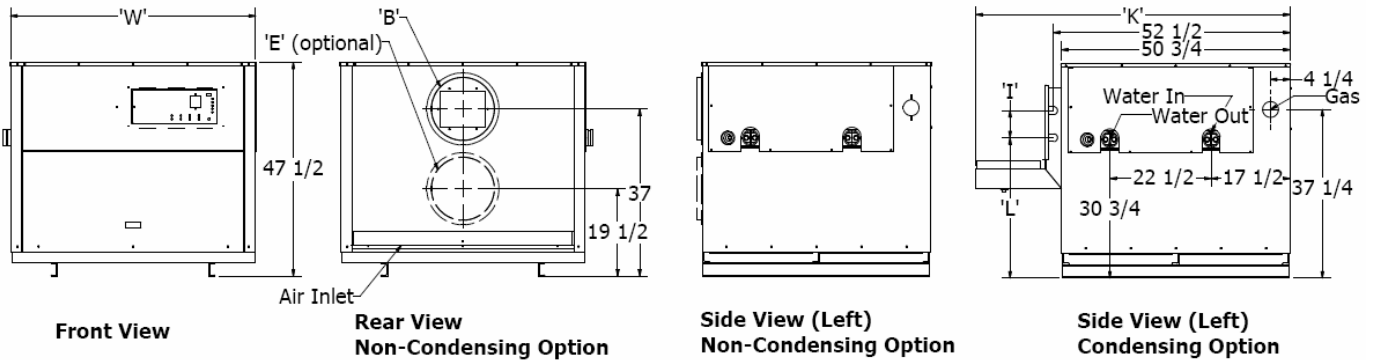
The external jacket shall be of stainless and enameled steel panels assembled with crimplite non-strip self tap screws.

SUBMITTAL DATA SHEET – MICROFLAME GRANDE

Engineer: _____
 Prepared by: _____
 Job Name: _____

Job Location: _____
 Buyer's Name: _____
 Buyer's Address: _____

Date: _____
 Quote #: _____



Dimensions and Specifications

Model	'T'	'K'	'L'	'W'	Connection Water	Connection Gas	'B' Dia. Venting			'E' Dia.
							Outdoor	Sidewall or Condensing	Standard	Air Inlet
MFNW2000	6	68	34 5/8	54 5/8	3	1 1/2	12	14	14	12
MFNW2500	6	72	34 5/8	78 7/8	3	2	14	14	16	14
MFNW3000	6	72	34 5/8	78 7/8	3	2	14	14	16	14
MFNW3500	6	72	34 5/8	103	4	2 1/2	16	16	18	16
MFNW4000	6	72	34 5/8	103	4	2 1/2	16	16	18	16

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
MFNW2000	2,000,000	1,700,000	1,900,000	585.6	497.8	556.3	1,585.0	1,635.0
MFNW2500	2,500,000	2,125,000	2,375,000	732.0	622.2	695.4	1,675.0	1,745.0
MFNW3000	3,000,000	2,550,000	2,850,000	878.4	746.6	834.5	1,750.0	1,820.0
MFNW3500	3,500,000	2,975,000	3,325,000	1,024.8	871.1	973.6	2,000.0	2,070.0
MFNW4000	4,000,000	3,400,000	3,800,000	1,171.2	995.5	1,112.6	2,200.0	2,270.0

Recovery Capacity

Model	100°F Rise / GPH	56°C Rise / LPH	80°F Rise / GPH	44°C Rise / LPH	60°F Rise / GPH	33°C Rise / LPH	50°F Rise / GPH	28°C Rise / LPH	40°F Rise / GPH	22°C Rise / LPH	20°F Rise / GPH	11°C Rise / LPH
MFNW2000	2037	7711	2546	9639	3395	12851	4074	15422	5093	19277	10185	38554
MFNW2500	2546	9638	3183	12047	4243	16063	5092	19275	6365	24094	12730	48188
MFNW3000	3055	11564	3819	14456	5092	19274	6110	23129	7638	28911	15275	57822
MFNW3500	3565	13495	4456	16869	5942	22492	7130	26990	8913	33737	17825	67475
MFNW4000	4074	15422	5093	19277	6790	25703	8148	30844	10185	38554	20370	77109

Head Loss and Flow Vs Temperature Rise

Model	20 °F		30 °F		35 °F	
	USGPM	ΔP ft.	USGPM	ΔP ft.	USGPM	ΔP ft.
MFNW2000	170	5.1	113	2.4	97	1.8
MFNW2500	200 *	8.2	141	4.30	121	3.3
MFNW3000	200 *	8.2	170	6.20	146	4.5
MFNW3500	200 *	10.2	198	10.20	170	7.7
MFNW4000	200 *	10.2	200 *	10.20	194	9.8

* Maximum flow recommended. Temperature rise may be higher than shown. Contact factory for recommendations

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 _____