



Typical Specifications For MicoFlame - Domestic Hot Water Supply Models MFW 60, Through MFW 600

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 by 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 crimplite non-strip self tap screws.

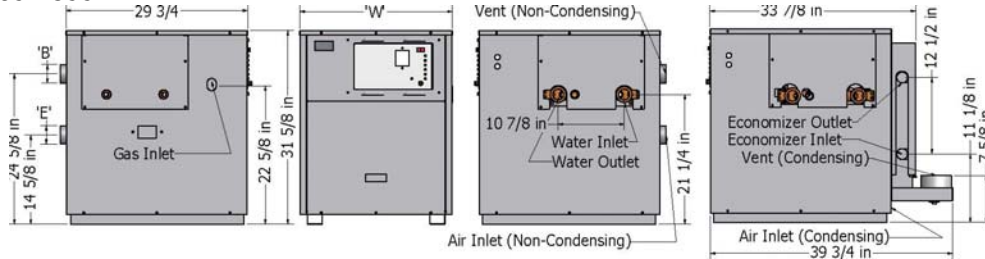
SUBMITTAL DATA SHEET – MICROFLAME

Engineer: _____
 Prepared by: _____
 Job Name: _____

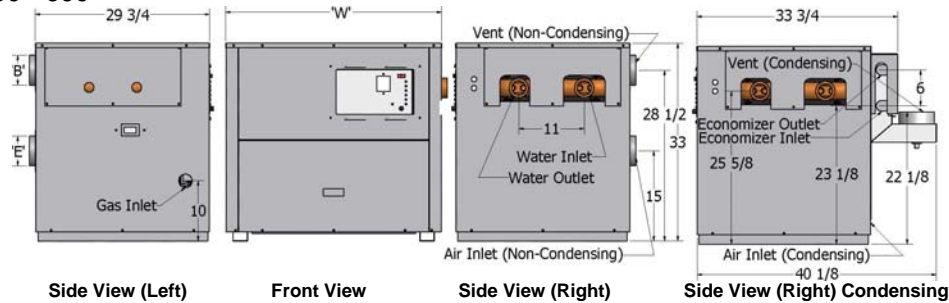
Job Location: _____
 Buyer's Name: _____
 Buyer's Address: _____

Date: _____
 Quote #: _____

Model 60 - 300



Model 400 - 600



Dimensions and Specifications

Model	W	Water Connection	Gas Connection	B' Dia. Venting			Air Inlet	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
				Outdoor	Sidewall or Condensing	Standard										
MFNW060	18 3/4	1 1/2	1/2	3	3	3	3	MFNW060	60,000	51,000	57,000	17.6	14.9	16.7	190.0	230.0
MFNW100	18 3/4	1 1/2	1/2	3	3	4	3	MFNW100	100,000	85,000	95,000	29.3	24.9	27.8	195.0	235.0
MFNW150	18 3/4	1 1/2	1/2	3	3	4	3	MFNW150	150,000	127,500	142,500	43.9	37.3	41.7	200.0	240.0
MFNW200	18 3/4	1 1/2	3/4	4	4	5	4	MFNW200	200,000	170,000	190,000	58.6	49.8	55.6	210.0	250.0
MFNW250	25	1 1/2	3/4	4	4	5	4	MFNW250	250,000	212,500	237,500	73.2	62.2	69.5	225.0	285.0
MFNW300	25	1 1/2	3/4	5	5	6	5	MFNW300	300,000	255,000	285,000	87.8	74.7	83.5	240.0	290.0
MFNW400	31 1/2	2	1	5	5	6	5	MFNW400	400,000	340,000	380,000	117.1	99.6	111.3	290.0	310.0
MFNW500	31 1/2	2	1	6	6	7	6	MFNW500	500,000	425,000	475,000	146.4	124.4	139.1	305.0	345.0
MFNW600	36 1/2	2	1	6	6	7	6	MFNW600	600,000	510,000	570,000	175.7	149.3	166.9	360.0	400.0

Recovery Capacity

Model	100°F		56°C		80°F		44°C		60°F		33°C		50°F		28°C		40°F		22°C		20°F		11°C	
	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH	Rise / GPH	Rise / LPH
MFNW060	61.2	231.6	76.5	289.6	102.0	386.1	122.4	463.3	153.0	579.2	306.0	1158.3												
MFNW100	101.9	385.7	127.4	482.2	169.8	642.9	203.8	771.5	254.8	964.3	509.5	1928.7												
MFNW150	152.9	578.8	191.1	723.5	254.8	964.6	305.8	1157.6	382.3	1447.0	764.5	2893.9												
MFNW200	203.8	771.5	254.8	964.3	339.7	1285.8	407.6	1542.9	509.5	1928.7	1019.0	3857.3												
MFNW250	254.8	964.5	318.5	1205.7	424.7	1607.5	509.6	1929.0	637.0	2411.3	1274.0	4822.6												
MFNW300	305.7	1157.2	382.1	1446.5	509.5	1928.7	611.4	2314.4	764.3	2893.0	1828.5	5786.0												
MFNW400	407.6	1542.9	509.5	1928.7	679.3	2571.6	815.2	3085.9	1019.0	3857.3	2038.0	7714.7												
MFNW500	509.5	1928.7	636.9	2410.8	849.2	3214.4	1019.0	3857.3	1273.8	4821.7	2547.5	9643.3												
MFNW600	611.4	2314.4	764.3	2893.0	1019.0	3857.3	1222.8	4628.8	1528.5	5786.0	3057.0	11572.0												

Head Loss and Flow Vs Temperature Rise

Model	10 °F		20 °F		30 °F	
	USGPM	ΔP ft.	USGPM	ΔP ft.	USGPM	ΔP ft.
MFNW060	10.2	0.03	5.1	0.01	3.4	0.005
MFNW100	17.0	0.07	8.5	0.02	5.7	0.010
MFNW150	25.5	0.20	12.8	0.04	8.5	0.030
MFNW200	34.0	0.40	17.0	0.08	11.3	0.050
MFNW250	42.5	0.65	21.3	0.16	14.2	0.100
MFNW300	51.0	1.50	25.5	0.49	17.0	0.190
MFNW400	68.0	2.00	34.0	0.55	22.7	0.260
MFNW500	85.0	3.00	42.5	0.76	28.3	0.390
MFNW600	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 _____