Typical Specifications for MicoFlame Domestic Hot Water Supply

Models MFW400-MFW600

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 operated on Natural gas or L.P. gas.

The domestic hot water boiler shall be design/certified by UL 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. The boiler shall bear the ASME “H” or “HLW” stamp and shall be national board listed where required.

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 boiler 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 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 BTC4PA 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 retrial. Trial for ignition shall be 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.

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Models MFW400-MFW600

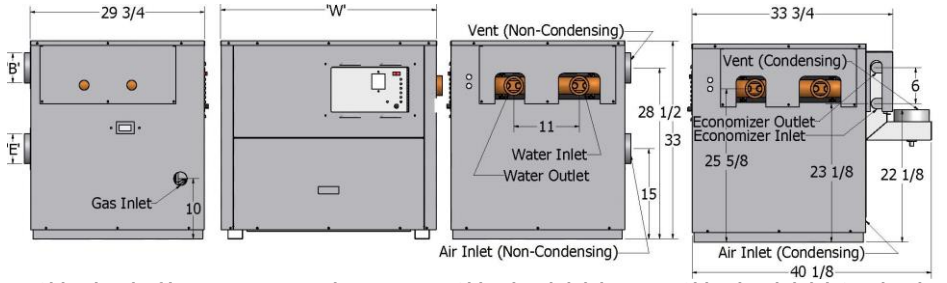
SUBMITTAL DATA SHEET – MICOFLAME

Engineer: _____ | Job Location: _____ | Date: _____

Prepared by: _____ | Buyer's Name: _____ | Quote #: _____

Job Name: _____ | Buyer's Address: _____

Model 400 - 600



Side View (Left) **Front View** **Side View (Right)** **Side View (Right) Condensing**

Input & Output

Model	Input [BTUH]	Output Non-Condensing [BTUH]	Output Condensing [BTUH]	Input [kW]	Output, Non-Condensing [kW]	Output, Condensing [kW]	Approx. Weight, Non-Condensing [lbs]	Approx. Weight, Condensing [lbs]
MFW0400	400,000	340,000	380,000	117.1	99.6	111.3	290	310
MFW0500	500,000	425,000	475,000	146.4	124.5	139.1	305	345
MFW0600	600,000	510,000	570,000	175.7	149.3	166.9	360	400

Non-Condensing Recovery Rate

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]
MFW0400	407.7	1541.0	509.6	1926.3	679.5	2568.3	815.3	3082.0	1019.2	3852.5	2038.4	7705.0
MFW0500	509.6	1926.3	637.0	2407.8	849.3	3210.4	1019.2	3852.5	1274.0	4815.6	2548.0	9631.3
MFW0600	611.5	2311.5	764.4	2889.4	1019.2	3852.5	1223.0	4623.0	1528.8	5778.8	3057.6	11557.6

Condensing Recovery Rate

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]
MFW0400	455.6	1722.3	569.5	2152.9	759.4	2870.5	911.3	3444.6	1139.1	4305.8	2278.2	8611.5
MFW0500	569.5	2152.9	711.9	2691.1	949.2	3588.1	1139.1	4305.8	1423.9	5382.2	2847.7	10764.4
MFW0600	683.5	2583.5	854.3	3229.3	1139.1	4305.8	1366.9	5166.9	1708.6	6458.6	3417.3	12917.3

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

Optional Accessories _____