Typical Specifications for BlueFlame Domestic Hot Water Supply

Models BF(W) 0480 – BF(W) 1950

Submittal Data Sheet

BlueFlame Domestic Hot Water Supply

Date: _____ Quote No.: _____

Engineer: _____ Prepared by: _____

Job Name: _____ Job Location: _____

_____ _____

Buyers Name: _____ Buyers Address: _____

_____ _____

The heater shall be a Camus BlueFlame 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 heater shall be design certified by UL and shall meet the requirements of ANSI Z21.13, and CSA 4.9. The heater shall be vented as a Category I 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. The water heater shall have refractory inspection doors for ease of inspection of the combustion chamber without disruption.

Burner Tray:

The Burners shall be constructed of stainless steel. The heater shall have a burner tray drawer guide rail so that the burner tray can slide out of the heater for ease of service. The burner shall light off smoothly and shall run with minimum heat build up. The intermittent ignition pilot shall shut down the main burner within 4 seconds of pilot flame failure (natural gas and propane).

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 one row 10 tubes 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.

Controls:

Controls include an optional electronic proportional integrated limit/operator control 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 fully diagnostic light package are included. Flow switch is included loose.

Firing Mode:

The gas train shall consist of a combination control incorporating dual main valve seats, a main manual gas valve, a pilot valve and pilot regulator and a firing valve.

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:

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

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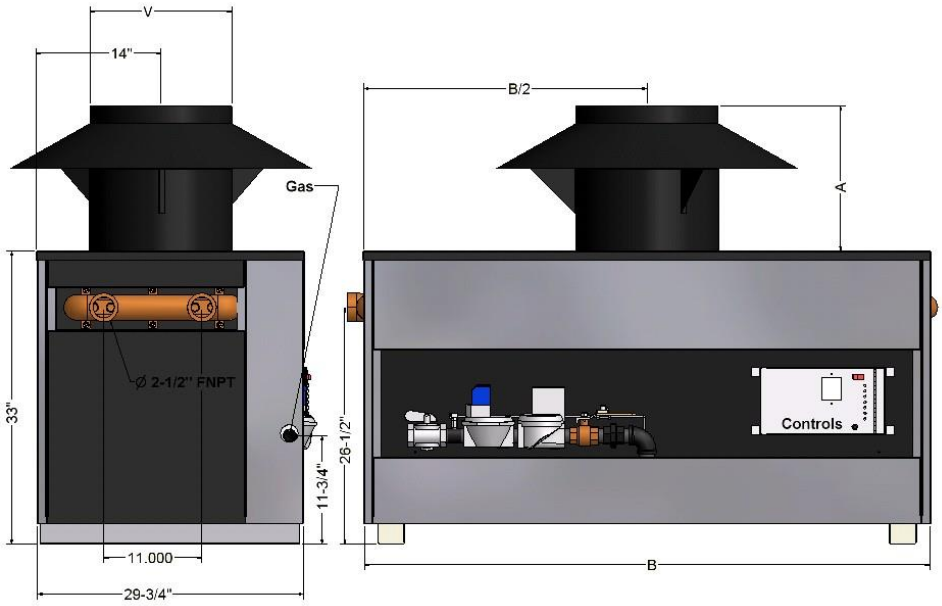

Dimensions

Model	A	B	V	N.G.	L.P.
480	16”	30 ¾”	10”	1”	¾”
660	16”	39”	12”	1”	¾”
840	19”	47 ¼”	14”	1”	¾”
1020	21”	55 ½”	16”	1 ¼”	1”
1200	21”	63 3/4”	16”	1 ¼”	1”
1380	21”	72”	18”	1 ¼”	1”
1560	21”	80 ¼”	18”	1 ¼”	1”
1740	21”	88 ½”	20”	1 ½”	1 ¼”
1950	21”	96 ¾”	20”	1 ½”	1 ¼”

Model	Input BTUH	Output BTUH	Weight
480	480,000	398,400	356
660	660,000	547,800	422
840	840,000	697,200	507
1020	1,020,000	846,600	564
1200	1,200,000	996,000	620
1380	1,380,000	1,145,400	698
1560	1,560,000	1,294,800	764
1740	1,740,000	1,444,200	830
1950	1,950,000	1,618,500	900

Primary Heat Exchanger Head Loss and Flow

Model	Temperature Rise Across Heat Exchanger					
	20°F (11°C)		30°F (16.7°C)		35°F (19.4°C)	
	USGPM	ΔP-Ft.	USGPM	ΔP-Ft.	USGPM	ΔP-Ft.
480	40.0	0.5	26.5	0.3	22.5	0.2
660	55.0	1.1	36.5	0.5	31.0	0.4
840	70.0	2.1	46.5	0.9	40.0	0.7
1020	85.0	3.3	56.5	1.5	48.5	1.2
1200	*	*	66.5	2.3	57.0	1.7
1380	*	*	76.5	3.3	65.5	2.5
1560	*	*	86.0	4.5	74.0	3.4
1740	*	*	96.0	5.9	82.0	4.5
1950	*	*	108.0	6.8	92.5	6.0

***Consult factory for recommendation**

Model No.: _____ No. of Units: _____ Type of Gas: _____

Total Input: _____BTU/hr Total Output: _____BTU/hr

Flow: _____USGPM @ Allowable Pressure Drop _____ ft.

Optional Accessories: _____

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