



Typical Specifications For BlueFlame Hydronic Heating Boilers Models BFH 480 to 1950

The heater shall be a CAMUS Blueflame model _____ having an input rating of _____ Btu (kw) /hr. and _____ Btu (kw)/hr output for hydronic heating.

The heater shall be design certified by CSA International and shall meet the requirements of ANSI Z21.13 & 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 & 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 full diagnostic light package are included. Flow switch is included loose.

Firing Mode:

The heater shall operate as on/off. As an option the heater will be provided with two stage or modulating gas valve.

Gas Train:

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:

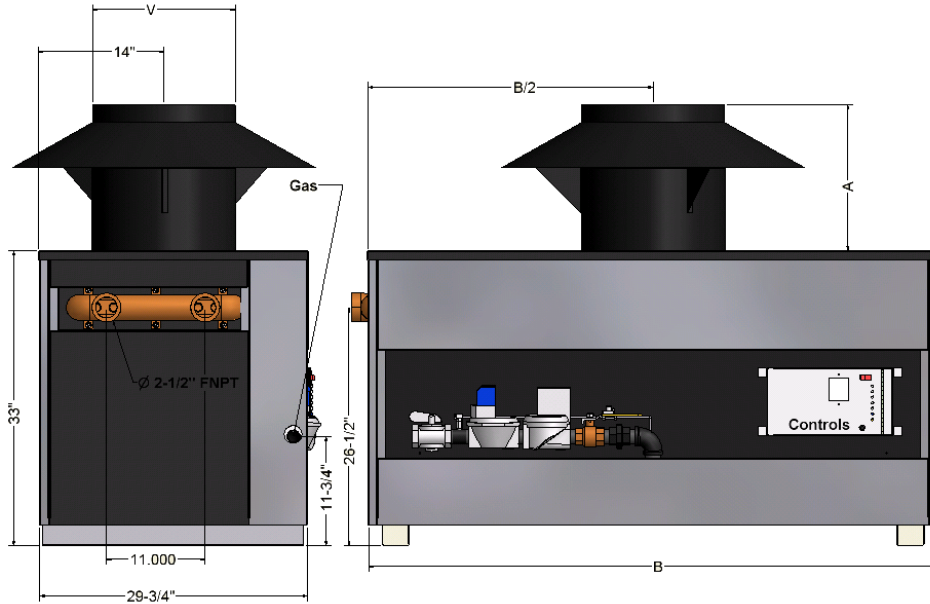
The ignition module shall provide for intermittent ignition and continuous retrieval. Trial for ignition shall be 15 seconds with 5 minutes between retrievals.

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 – BLUEFLAME

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



Dimensions

Model	B	V	A	Nat. Gas	L.P.
480	30 3/4"	10"	16"	1"	3/4"
660	39"	12"	16"	1"	3/4"
840	47 1/4"	14"	19"	1"	3/4"
1020	55 1/2"	16"	21"	1 1/4"	1"
1200	63 3/4"	16"	21"	1 1/4"	1"
1380	72"	18"	21"	1 1/4"	1"
1560	80 1/4"	18"	21"	1 1/4"	1"
1740	88 1/2"	20"	21"	1 1/2"	1 1/4"
1950	96 3/4"	20"	21"	1 1/2"	1 1/4"

Heat Exchanger Head Loss & Flow vs. Temp. Rise

Model	20 °F		30 °F		35 °F	
	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	100.0	5.6	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	8.0	92.5	6.0

* Note: Contact factory for recommendation

Model	Input BTUH	Output BTUH	Weight LBS.
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

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 _____