



Typical Specifications For CeraFlame Hydronic Heating Boilers Models CFH 450, Through CFH 650

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

The heating boiler shall be design/certified by CSA International and shall meet the requirements of ANSI Z21.13 & CSA 4.9. The heating boiler 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 a metal sleeve inside of which is assembled a tightly wound dual copper coil having a maximum allowable working pressure of 160 psig (1100 kPa).

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. 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 four pass two row 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:

Standard controls include an electronic proportional integrated combination 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 or 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:

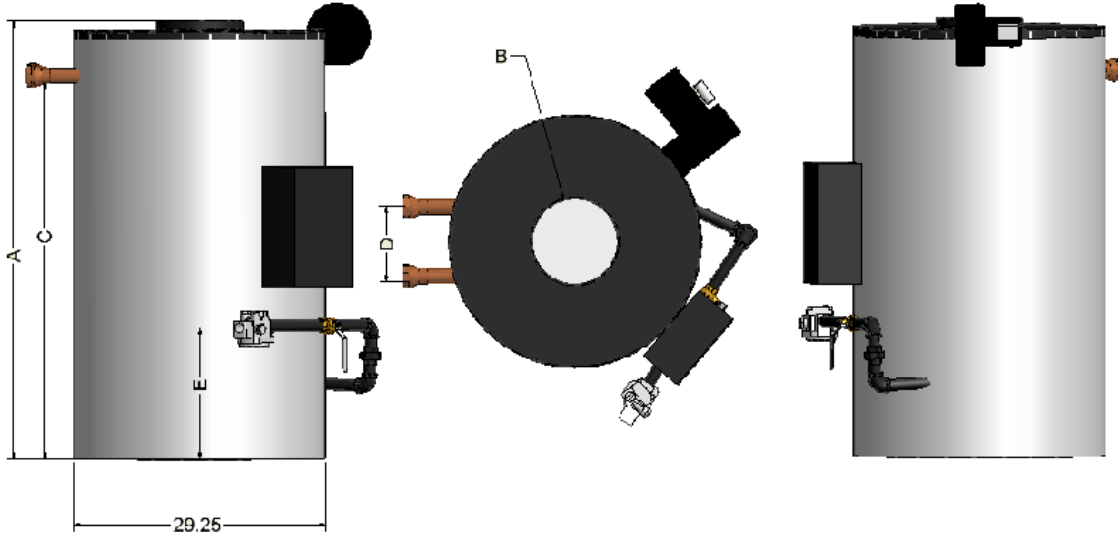
The external jacket shall be of stainless steel panels assembled with crimpite non-strip self tap screws.

SUBMITTAL DATA SHEET – CERAFLAME

Engineer: _____
 Prepared by: _____
 Job Name: _____

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

Date: _____
 Quote #: _____



Dimensions and Specifications								
Model	Height Dim. "A"	Vent Dim. Stand "B"	Vent Dim. Thru Wall	Water Conn. "C"	Water Conn. Dist "D"	Gas Height "E"	Water Conn. Prim.	Gas Conn.
450	42½"	6"	6"	34"	8"	14½"	2" NPT	1" NPT
550	49¾"	6"	6"	42½"	8"	14½"	2" NPT	1" NPT
650	49¾"	8"	8"	42½"	8"	14½"	2" NPT	1" NPT

Model	Temperature Rise Across Heat Exchanger			
	20°F		40°F	
	USGPM	ΔP - Ft.	USGPM	ΔP - Ft.
450	37.0	8.0	18.5	5.0
550	45.0	11.5	22.5	7.5
650	53.0	12.0	26.0	10.0

Model	Input BTUH	Output BTUH	Weight LBS.
450	450,000	382,500	326
550	550,000	467,500	360
650	650,000	552,500	360

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 _____