



Typical Specifications For CeraFlame Domestic Hot Water Supply Models CFW 450, Through CFW 650

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

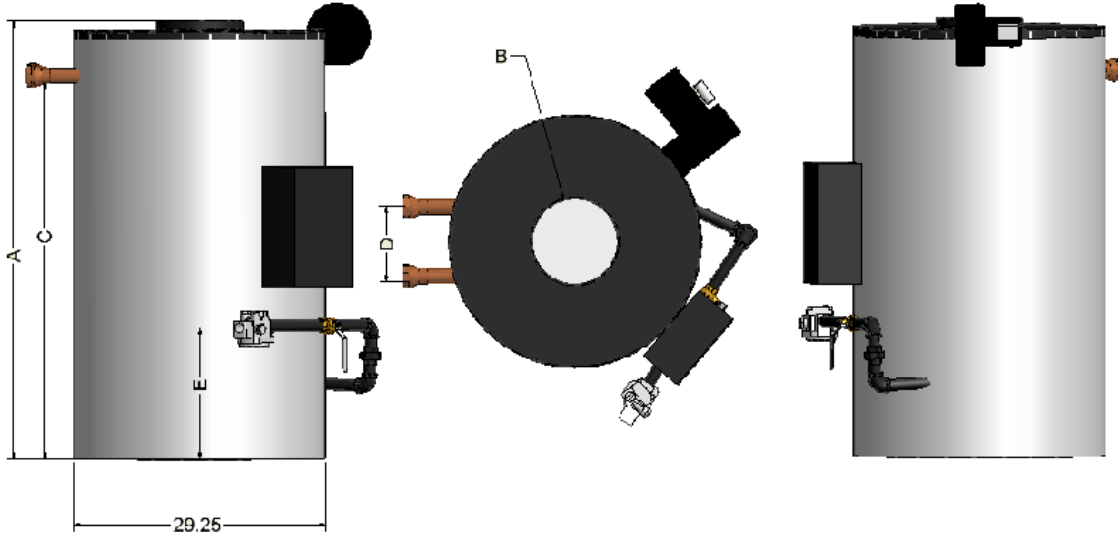
The external jacket shall be of stainless steel panels assembled with crimplite non-strip self tap screws.

SUBMITTAL DATA SHEET – CERAFLAME

Engineer: _____
 Prepared by: _____
 Job Name: _____

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

Date: _____
 Quote #: _____



| Recovery Capacity | | | | | | | | | | | | |
|-------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Model | 100°F Rise | 56°C Rise | 80°F Rise | 44°C Rise | 60°F Rise | 33°C Rise | 50°F Rise | 28°C Rise | 40°F Rise | 22°C Rise | 20°F Rise | 11°C Rise |
| | GPH | LPH | GPH | LPH | GPH | LPH | GPH | LPH | GPH | LPH | GPH | LPH |
| 450 | 453 | 1715 | 566 | 2144 | 755 | 2858 | 906 | 3430 | 1132.5 | 4287.5 | 2265 | 8575 |
| 550 | 554 | 2097 | 693 | 2621 | 923 | 3495 | 1108 | 4194 | 1385 | 5242.5 | 2770 | 10485 |
| 650 | 647 | 2449 | 809 | 3061 | 1078 | 4082 | 1294 | 4898 | 1617.5 | 6122.5 | 3235 | 12245 |

| 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 |

| Heat Exchanger Head Loss & Temperature Rise | | | | |
|---|--|----------|-------|----------|
| 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 _____