



## Typical Specifications For DynaMax Combination Heating and Domestic Hot Water Boilers Models DM(N,P)C 0603-DM(N,P)C 0803

The boiler shall be a CAMUS DYNAMAX model \_\_\_\_\_ having a modulating input rating of \_\_\_\_\_ Btu (kW) /hr. an output of \_\_\_\_\_ Btu (kW)/hr and a recovery capacity of \_\_\_\_\_ GPH (LPH) at 100°F (56°C) and shall be operated on Natural gas or L.P. Gas. The boiler shall be capable of full modulation firing down to 20% of rated input with turn down ratio of 5 to 1.

The boiler shall be design certified by CSA International and shall meet the requirements of ANSI Z21.13 and CSA 4.9. The boiler shall bear the ASME "H" stamp and shall be national board listed where required.

### Combustion Chamber:

The combustion chamber shall be sealed and completely enclosed, independent of the outer jacket assembly. The Stainless Steel combustion chamber shall be designed to drain condensation to the bottom of the heat exchanger assembly. A condensate collection box shall be employed to trap and neutralize flue product condensate.

### Burner:

The burner shall be a premix design and constructed of high temperature Stainless Steel with knitted metal fiber outer covering 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. Pump shall be supplied with each boiler.

### Heat Exchangers:

The heat exchanger shall be inspected and tested to A.S.M.E. Section IV requirements. The A.S.M.E. Section IV seal of approval will not be provided as standard for jurisdictions not requiring the A.S.M.E. Section IV seal of approval. The heat exchanger shall be a multi-pass stainless steel all welded construction heat exchanger with maximum working pressure of 160 PSI (1100 kPa). A pressure relief valve of \_\_\_\_\_ lb/hr shall be furnished with the heater.

A plate type heat exchanger shall be deployed with the boiler and be utilized to provide domestic hot water service.

### Integrated Combustion and Operating Controls:

The CSA certified control module shall incorporate at least the following features:

- A high resolution LCD display.
- Three levels of access (user, installer, and lab).
- Real time data collection and diagnostics of selected parameters with PC interface.
- Support for up to eight (8) boilers in a sequencing application.
- MODBUS ready.
- Boiler modulation to shut down on high temperature flue gas detection.
- DHW priority with combination boiler using factory supplied pump, three way diverter valve and plate heat exchanger.

The controller shall employ a direct spark ignition with three (3) trials for ignition followed by a lock-out condition.

### Venting and Air Intake Options

The boiler shall be vented as a through-wall (vertical or horizontal) Category IV condensing appliance for up to 100 equivalent ft using PVC, CPVC material approved for use on condensing application under standard ULC S636 or equivalent, or as permitted by the local jurisdiction. The following air intake options shall be utilized:

- Outside air sealed direct (vertical or horizontal);
- Outside air ducted to jacket flange;
- Indoor air.

Floor mount models may be vented as Category II condensing appliances.

### Gas Train:

The gas train shall consist of a gas/air servo regulated gas valve to provide slow opening, fast closing, safety shutoff and air/gas ratio control.

### External Jacket and Fasteners:

The external jacket shall be of stainless steel mirror finish panels and heavy gauge painted steel assembled utilizing interference fit locks and minimal non-strip self tap screws.

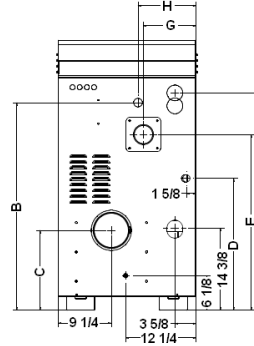
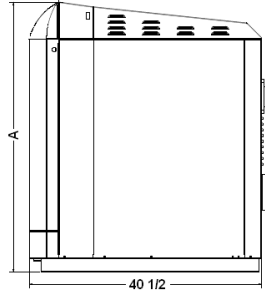
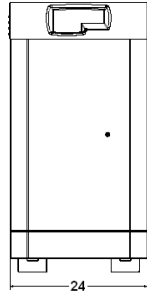
# SUBMITTAL DATA SHEET – DYNAMAX - COMBINATION

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

## Floor Mount Models

### Input & Output

Model	Input Btuh Range	Max Output Btuh
0603	120-600	582
0703	140-700	679
0803	160-800	776



### Approximately Shipping Weight

Model	Weight [lbs]
0603	365
0703	435
0803	470

### Heat Exchanger Head Loss & Flow

Model	Temperate Rise Across Heat Exchanger			
	30°F		35°F	
	USGPM	ΔP-Ft.	USGP M	ΔP-Ft.
0603	38.8	17.5	32.0	11.8
0703	45.3	18.2	40.0	14.4
0803	51.8	23.5	43.0	16.0

### Recovery Capacity

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
602	697	2636	872	3295	1162	4394
702	814	3076	1017	3845	1356	5126
802	930	3515	1162	4394	1550	5858

### Dimensions & Specifications

Model	Dim "A" [in.]	Dim "B" [in.]	Dim "C" [in.]	Dim "D" [in.]	Dim "E" [in.]	Dim "F" [in.]	Dim "G" [in.]	Dim "H" [in.]	Length of Vent and Air Intake Pipes at Recommended Diameter [in.]			Water Conn. [in.] NPT	Gas Conn. At Boiler [in.] NPT
									Category IV		Cat. II Comb. Vent		
									over 25' and up to 100'	Up to 25'			
0603	47 1/8	36 1/4	14	23	30 3/4	38	9 1/8	10 1/8	4	3	6	2	1
0703	47 1/8	36 1/4	14	23	30 3/4	38	9 1/8	10 1/8	4 (Air), 5 (vent)	4	7	2	1
0803	47 1/8	36 1/4	14	23	30 3/4	38	9 1/8	10 1/8	5 (Air), 6 (vent)	5	7	2	1

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 \_\_\_\_\_