



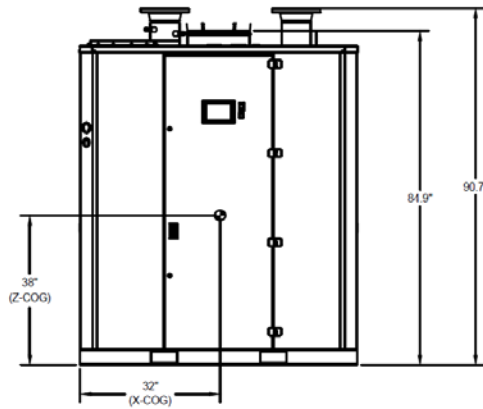
FREE FLEX CONDENSING BOILERS - SUBMITTAL DATA SHEET

RATINGS AND CAPACITIES		
Input - High Fire	5,000,000	BTU/HR
Output - High Fire	4,750,000	BTU/HR
Boiler Horsepower	141.9	BHP
Thermal Efficiency	95.0%	
Fuel	Natural Gas	
Firing Rate	Full Modulation	
Burner Turndown	Up to 20:1	
Low NOx Emissions	Capable, Consult Factory	
Inlet Gas Pressure (NG)	7"wc	Min.
	14"wc	Max.
Shipping Weight, Approximate	5,400	lbs

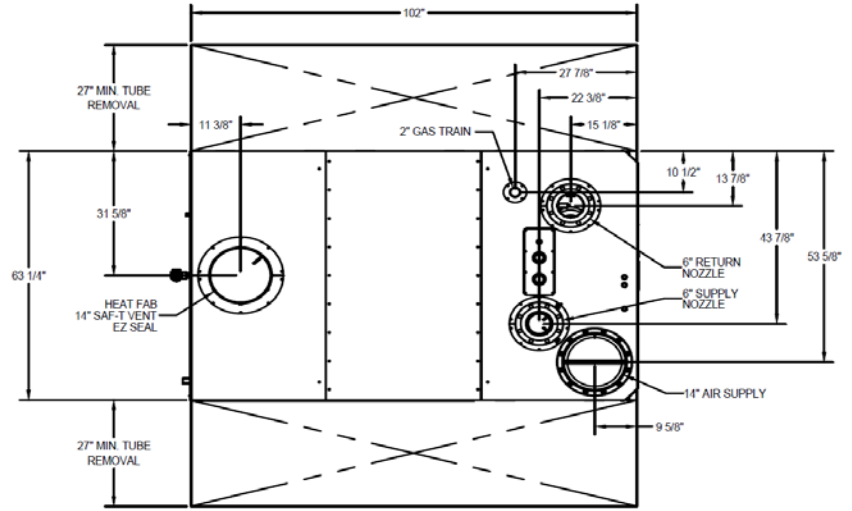
ASME Section IV (Max 160 PSIG / 210°F)	
ETL Certified to UL 795 and CAN 3.1.1	

DIMENSIONS / CONNECTIONS	
- Height	81"
- Width	63-1/4"
- Length	102"
- Supply / Return Connections	6" Flange
- Vent / Air Intake Connections	14"
- Condensate / Boiler Drain Conn.	1"
- Gas Connection	2"

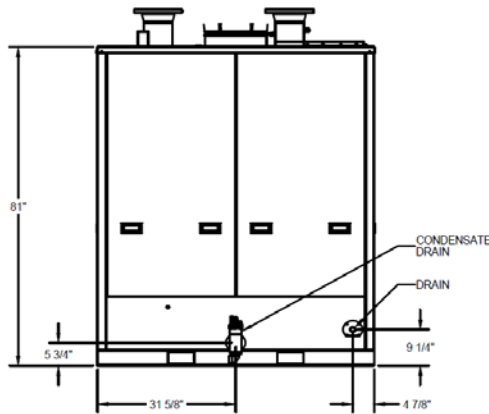
STANDARD EQUIPMENT	
- ASME Stainless Steel Heat Exchanger	
- Stainless Steel Mesh Pre-Mix Burner	
- Variable Speed Combustion Blower	
- Siemens LMV3 Burner Management and Parallel Positioning	
- Fuel-to-Air Ratio System with (9) Programmable Points	
- High Limit Temperature Control, Manual Reset	
- Water Flow Switch	
- Low Water Cutoff, Manual Reset	
- Condensate Trap	
- Blocked Condensate Switch	
- Combustion Air Proving Switch	
- Blocked Vent Air Switch	
- Pressure Relief Valve	
- Pressure & Temperature Gauges	
- Flue Gas Temperature Sensor	
- (2) Motorized Gas Valves with Proof of Closure	
- Supervised Pilot / UV Scanner	
- High/Low Gas Pressure Switches, Manual Reset	
- 480/3/60 Line Voltage (14.3 Amps)	
- Category IV Individual Venting	
- Category II Common Venting with Engineered Vent System	
- Polypropylene & Stainless Steel Acceptable *Material	
- Ducted or Room Combustion Air Intake	



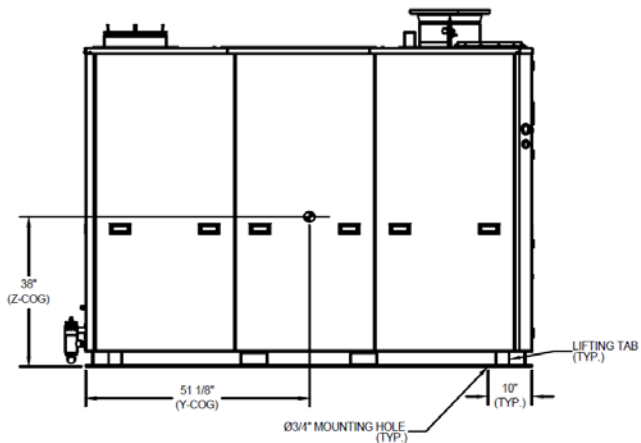
FRONT VIEW



TOP VIEW



REAR VIEW



LEFT SIDE VIEW

* Flue system material shall be capable of continuous operation at 230°F or higher, have the same corrosion resistance to flue gas condensation as AL29-4C and shall be certified to UL 1738 – venting system for gas-burning appliances cat II, III and IV.

- NOTES:
1. Dimensions shown are for reference only and subject to change without written notice.
 2. See O&M for required installation clearances

FLOWS AND PRESSURE DROPS					
Delta T	Flow (GPM)	Δ P (Ft. Hd)	Delta T	Flow (GPM)	Δ P (Ft. Hd)
20°F Δ T (Max)	475	33.50	50°F Δ T	190	4.17
25°F Δ T	380	21.42	60°F Δ T	158	2.08
30°F Δ T	317	14.25	70°F Δ T	136	0.83
35°F Δ T	271	10.42	80°F Δ T	119	0.67
40°F Δ T	238	7.92	90°F Δ T	106	0.58
45°F Δ T	211	6.25	100°F Δ T (Min)	95	0.50

<h2>FF-5000</h2>
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