



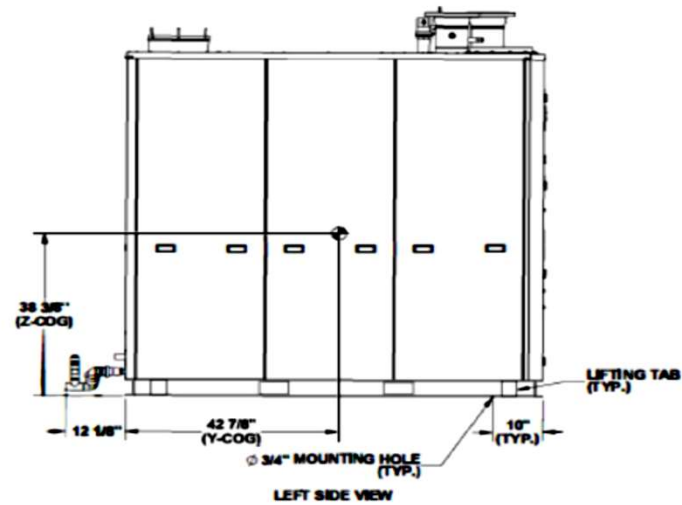
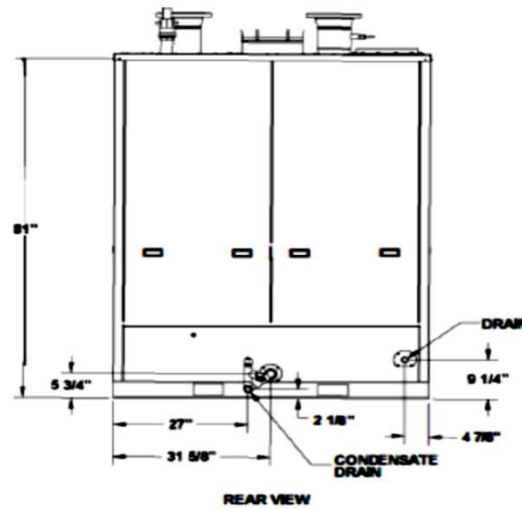
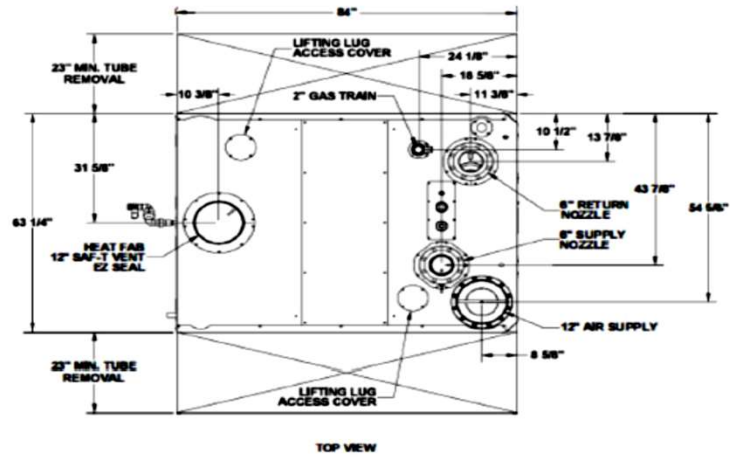
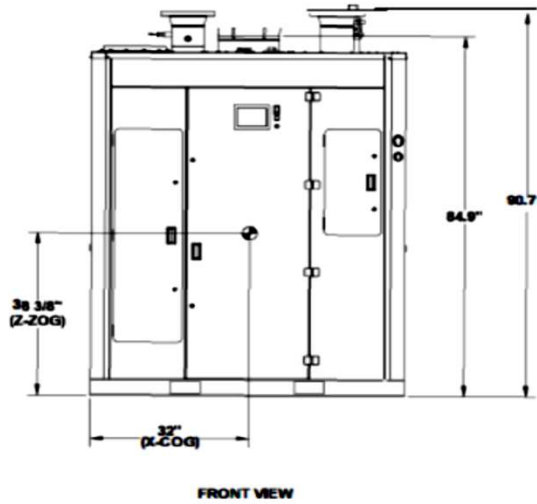
# ARCTIC CONDENSING BOILERS - SUBMITTAL DATA SHEET

RATINGS AND CAPACITIES	
Input - High Fire .....	4,000,000 BTU/HR
Output - High Fire .....	3,800,000 BTU/HR
Boiler Horsepower .....	113.5 BHP
AHRI Certified 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 .....	4,500 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 .....	84"
- Supply / Return Connections .....	6" Flange
- Vent / Air Intake Connections .....	12"
- 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	
- 208-240/3/60 Line Voltage (10.5 Amps)	
- 480/3/60 Line Voltage (5.25 Amps)	
- Category IV Individual Venting	
- Category II Common Venting with Engineered Vent System	
- Polypropylene & Stainless Steel Acceptable *Material	
- Ducted or Room Combustion Air Intake	



\* 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)	380	15.17	50°F Δ T	152	2.42
25°F Δ T	304	9.67	60°F Δ T	127	1.42
30°F Δ T	254	6.08	70°F Δ T	109	1.17
35°F Δ T	217	4.42	80°F Δ T	95	0.92
40°F Δ T	190	3.17	90°F Δ T	84	0.58
45°F Δ T	169	2.58	100°F Δ T (Min)	76	0.42

## ARC-4000

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