ARCTIC CONDENSING BOILERS - SUBMITTAL DATA SHEET

RATINGS AND CAPACITIES

Input - High Fire	3,500,000	BTU/HR
Output - High Fire	3,325,000	BTU/HR
Boiler Horsepower	99.3	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)

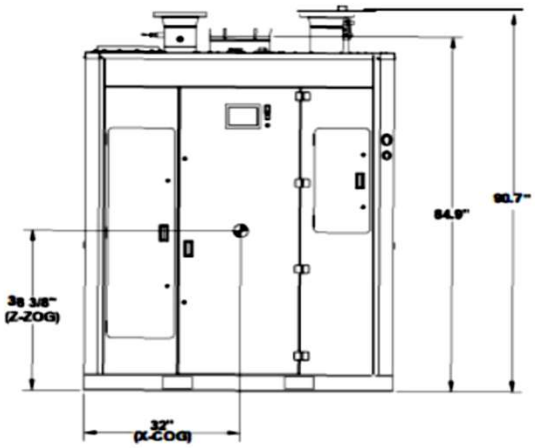
ETL Certified to UL 795 and CAN 3.1.1

DIMENSIONS / CONNECTIONS

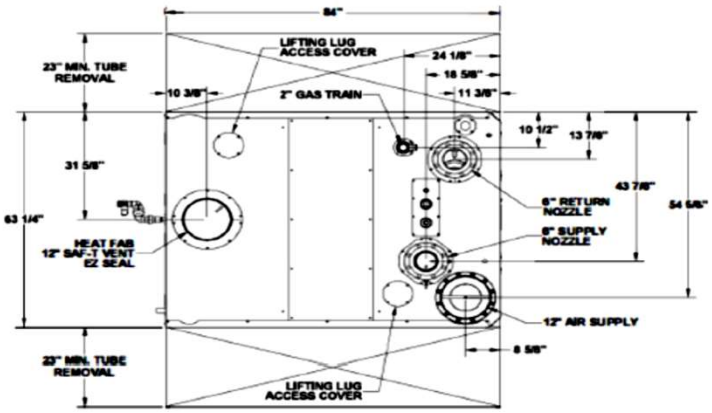
- Height ..... **81"**
- Width ..... **63-1/4"**
- Length ..... **84"**
- Supply / Return Connections ..... **6" Flange**
- Vent / Air Intake Connections ..... **12"**
- Condensate / Boiler Drain Conn. ..... **1"**
- Gas Connection ..... **2"**

STANDARD EQUIPMENT

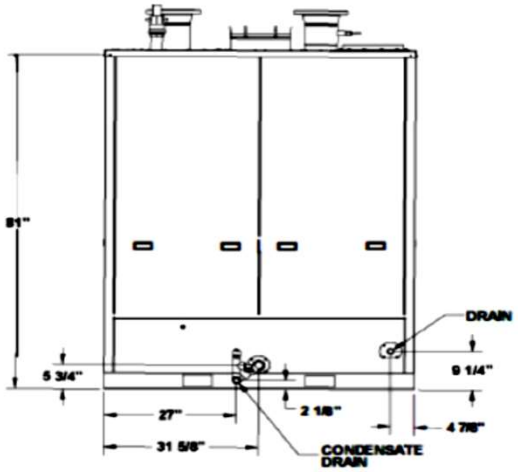
- ASME Stainless Steel Heat Exchanger
- Stainless Steel Mesh Pre-Mix Burner
- Variable Speed Combustion Blower
- Siemens LMV3 Burner Management and Parallel Positioning Fuel-to-Air Ratio System with (9) Programmable Points
- High Limit Temperature Control, Manual Reset
- Water Flow Switch
- Low Water 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



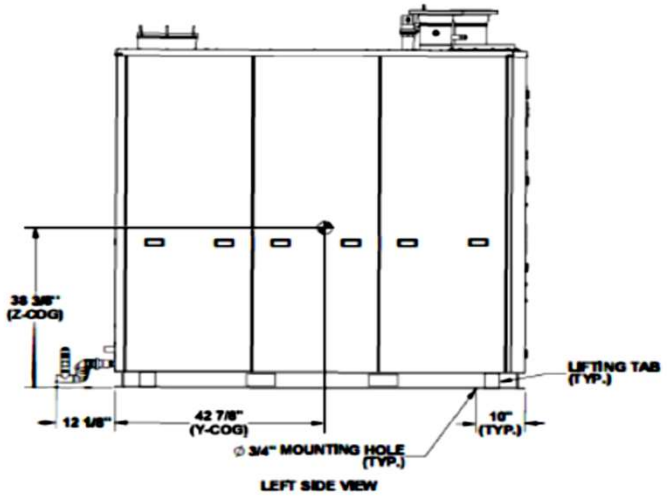
FRONT VIEW



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)	△ P (Ft. Hd)	Delta T	Flow (GPM)	△ P (Ft. Hd)
20°F △ T (Max)	333	11.33	50°F △ T	133	1.50
25°F △ T	266	7.33	60°F △ T	111	1.17
30°F △ T	222	4.58	70°F △ T	95	0.92
35°F △ T	190	3.33	80°F △ T	83	0.67
40°F △ T	166	2.67	90°F △ T	74	0.50
45°F △ T	148	2.08	100°F △ T (Min)	67	0.42

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