

ARCTIC CONDENSING BOILERS - SUBMITTAL DATA SHEET

RATINGS AND CAPACITIES

Input - High Fire	6,000,000	BTU/HR
Output - High Fire	5,700,000	BTU/HR
Boiler Horsepower	170.3	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	5,400	lbs

ASME Section IV (Max 160 PSIG / 210°F)



ETL Certified to UL 795 and CAN 3.1.1

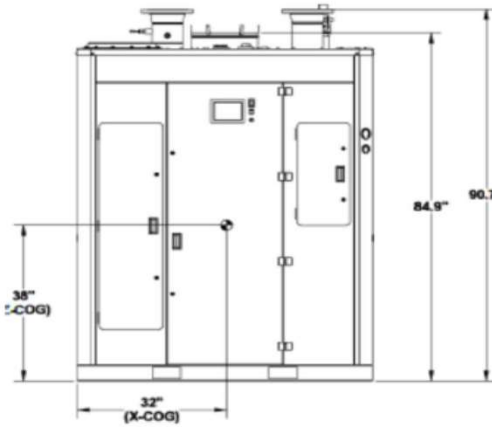


DIMENSIONS / CONNECTIONS

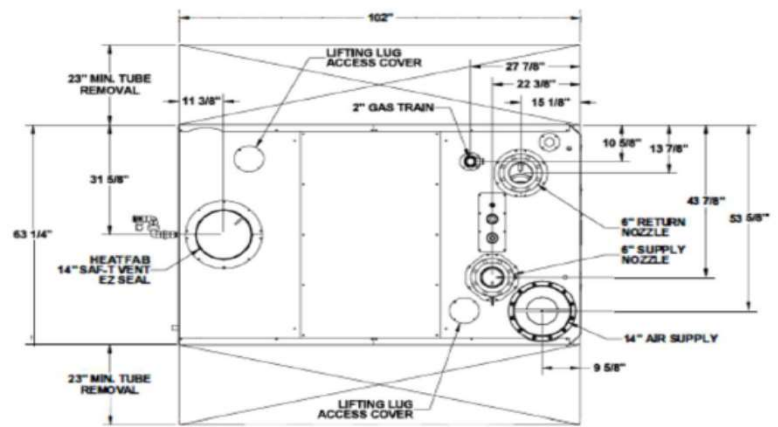
- Height	81"
- Width	63-1/4"
- Length	102"
- Supply / Return Connections	6" Flange
- Vent / Air Intake Connections	14"
- Condensate / Boiler Drain Conn.	1"
- Gas Connection	2"

STANDARD EQUIPMENT

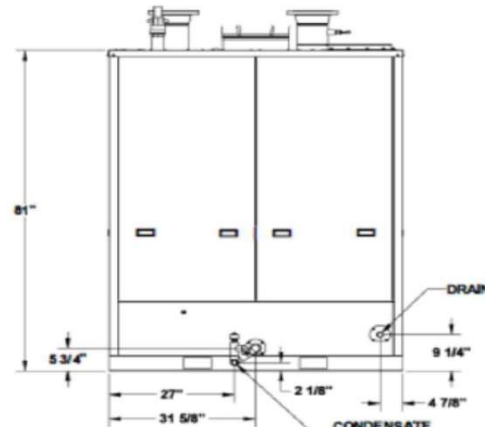
- ASME Stainless Steel Heat Exchanger
- Stainless Steel Mesh Pre-Mix Burner
- Variable Speed Combustion Blower
- Siemens LMV3 Burner Management and Parallel Positioning Fuel-to-Air Ratio System with (9) Programmable Points
- High Limit Temperature Control, Manual Reset
- Water Flow Switch
- Low Water 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
- 208-240/3/60 Line Voltage (26.6 Amps)
- 480/3/60 Line Voltage (14.25 Amps)
- Category IV Individual Venting
- Category II Common Venting with Engineered Vent System
- Polypropylene & Stainless Steel Acceptable *Material
- Ducted or Room Combustion Air Intake



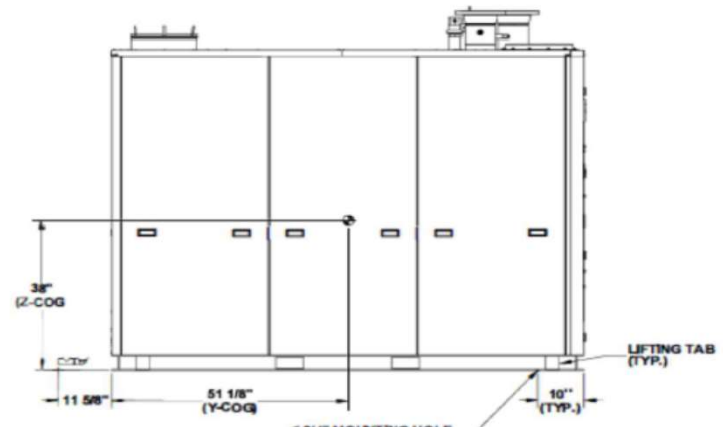
FRONT VIEW



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)	Δ P (Ft. Hd)	Delta T	Flow (GPM)	Δ P (Ft. Hd)
20°F Δ T (Max)	570	37.92	50°F Δ T	228	6.00
25°F Δ T	456	24.25	60°F Δ T	190	4.17
30°F Δ T	380	16.83	70°F Δ T	163	2.50
35°F Δ T	326	12.33	80°F Δ T	143	0.92
40°F Δ T	285	9.42	90°F Δ T	127	0.75
45°F Δ T	253	7.42	100°F Δ T (Min)	114	0.67

ARC-6000

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