## **ARCTIC CONDENSING BOILERS - SUBMITTAL DATA SHEET**

| RATINGS AND CAPACITIES            |                          |        |  |  |  |
|-----------------------------------|--------------------------|--------|--|--|--|
| Input - High Fire                 | 5,500,000                | BTU/HR |  |  |  |
| Output - High Fire                | 5,225,000                | BTU/HR |  |  |  |
| Boiler Horsepower                 | 156.1                    | BHP    |  |  |  |
| AHRI Certified Thermal Efficiency | 95.0%                    |        |  |  |  |
| Fuel Natural Gas                  |                          |        |  |  |  |
| Firing RateFull 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)

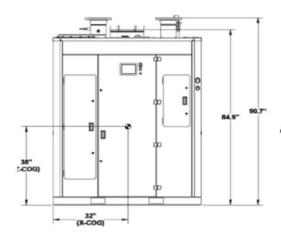
ETL Certified to UL 795 and CAN 3.1.1



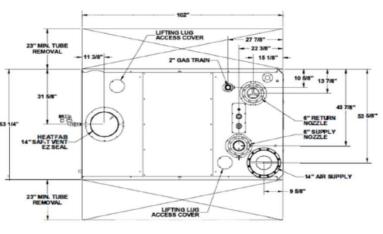
| DIMENSIONS / CONNECTIONS         |           |  |  |  |
|----------------------------------|-----------|--|--|--|
| - Height                         | 81"       |  |  |  |
| - Width                          | 63-1/4"   |  |  |  |
| - Length                         | 102"      |  |  |  |
| - Supply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

## STANDARD EQUIPMENT

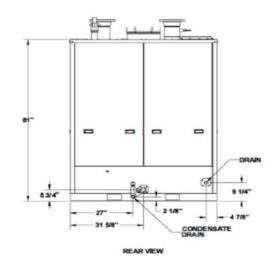
- ASME Stainless Steel Heat Exchanger
- Stainless Steel Mesh Pre-Mix Burner
- Variable Speed Combustion Blower
   Siemens LMV3 Burner Management and Parallel Positioning
   Fuel-to-Air Ratio System with (9) Programmable Points
- High Limit Temperature Control, Manual Reset
- Water Flow Switch
- Low Water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

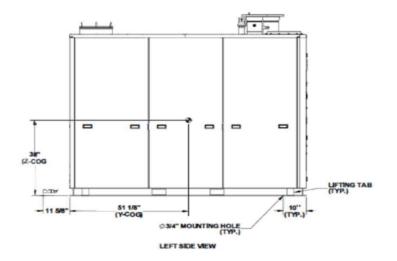


FRONT VIEW



TOPMEW





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)           | 523        | 37.25        | 50°F △ T        | 209        | 5.83         |  |  |
| 25°F △ T                 | 418        | 23.83        | 60°F △ T        | 174        | 2.92         |  |  |
| 30°F △ T                 | 348        | 16.50        | 70°F △ T        | 149        | 1.25         |  |  |
| 35°F △ T                 | 299        | 12.08        | 80°F △ T        | 131        | 0.92         |  |  |
| 40°F △ T                 | 261        | 9.25         | 90°F △ T        | 116        | 0.67         |  |  |
| 45°F △ T                 | 232        | 7.25         | 100°F △ T (Min) | 105        | 0.58         |  |  |



<sup>\*</sup> 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.