

FREE FLEX CONDENSING BOILERS - SUBMITTAL DATA SHEET

RATINGS AND CAPACITIES

Input - Low Fire	200,000	BTU/HR
Input - High Fire	1,000,000	BTU/HR
Output - High Fire	950,000	BTU/HR
Boiler Horsepower	28.4	BHP
Thermal Efficiency	95.0%	
Low Fire Thermal Efficiency	Up to 99%	
Heating Surface	125	Sq.Ft.
Water Content	19.7	Gallons
Fuel	Natural Gas	
Firing Rate	Full Modulation	
Burner Turndown	5:1	
Low NOx Emissions	Capable, Consult Factory	
Inlet Gas Pressure (NG)	4" wc	Min.
	14" wc	Max.
Shipping Weight, Approximate	1,620	lbs

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



ETL Certified to UL 795 and CAN 3.1.1

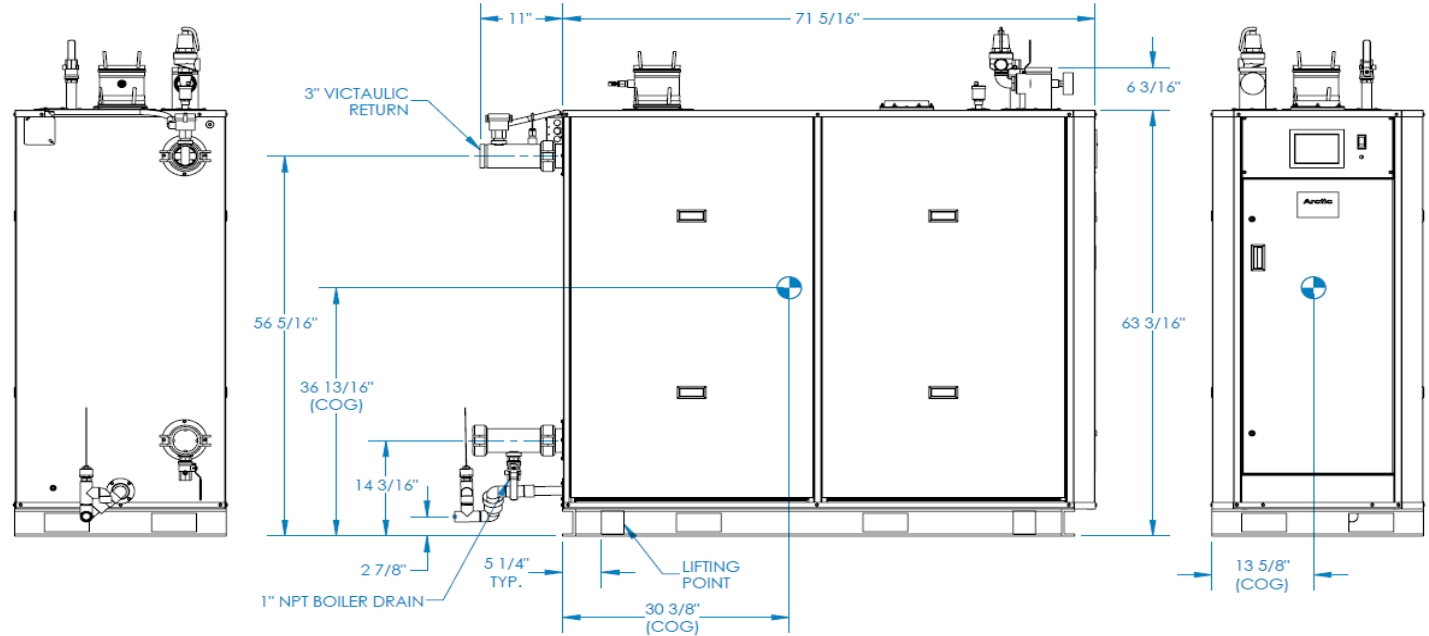
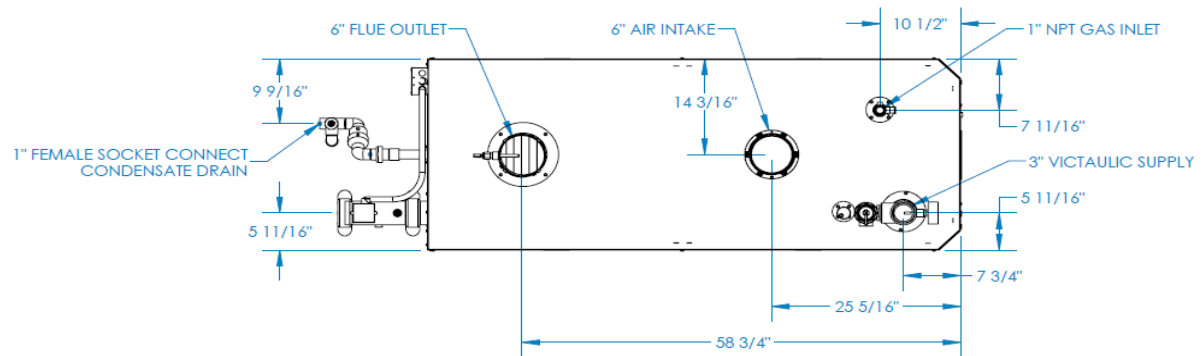


DIMENSIONS / CONNECTIONS

- Height 63 - 3/16"
- Width 28"
- Length 71-5/16"
- Supply / Return Connections 3" Victaulic
- Vent / Air Intake Connections 6"
- Condensate / Boiler Drain Conn. 1"
- Gas Connection 1"

STANDARD EQUIPMENT

- ASME Stainless Steel Heat Exchanger
- Stainless Steel Mesh Pre-Mix Burner
- Variable Speed Combustion Blower
- Concert Boiler Control™ (24v)
 - > 7" Color Touch Screen
 - > Peer-To-Peer Boiler Communications (Up to 8 Units)
 - > Energy Management System (EMS) Interface
 - > USB Data Port Transfer
 - > Self-Guiding Diagnostics
 - > Unmatched Archives
- High Limit Temperature Control, Manual Reset
- Blower Motor, 1/2 HP
- Water Flow Switch
- Low Water Cutoff, Manual Reset
- Condensate Trap
- Blocked Condensate Switch
- Pressure Relief Valve
- Pressure / Temperature Gauge
- Supply & Return Temperature Sensors
- Flue Gas Temperature Sensor
- Modulating Gas Valve
- Direct Spark Ignition / UV Scanner
- High/Low Gas Pressure Switches, Manual Reset
- High/Low Pre-Mix Pressure Switches
- 120/1/60 Line Voltage (6.6 Amps)
- Category IV Individual Venting
- Category II Common Venting with Engineered Vent System
- Polypropylene & Stainless Steel Acceptable *Material
- Ducted or Room Combustion Air Intake



NOTES:

1. Dimensions shown are for reference only
2. See O&M for required installation clearances
3. *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.

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)	95	12.70	50°F Δ T	38	2.03
25°F Δ T	76	8.13	60°F Δ T	32	1.41
30°F Δ T	63	5.64	70°F Δ T	27	1.04
35°F Δ T	54	4.15	80°F Δ T	24	0.79
40°F Δ T	48	3.18	90°F Δ T	21	0.63
45°F Δ T	42	2.51	100°F Δ T (Min)	19	0.51

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783 N Chili Ave | Peru, IN 46970

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