BFIT CONDENSING BOILERS - SUBMITTAL DATA SHEET

RATINGS AND CAPACITIES

Input - Low Fire	**600,000**	BTU/HR
Input - High Fire	**3,000,000**	BTU/HR
Output - High Fire	**2,910,000**	BTU/HR
Boiler Horsepower	**86.9**	BHP
Thermal Efficiency	**97.0%**	
Low Fire Thermal Efficiency	**Up to 99%**	
Heating Surface	**301**	Sq.Ft.
Water Content	**34.6**	Gallons
Fuel	**Natural Gas / Propane**	
Firing Rate	**Full Modulation**	
Burner Turndown	**5:1**	
Low NOx Emissions	**< 10 ppm**	
Inlet Gas Pressure (NG)	**4" wc**	Min.
Inlet Gas Pressure (Propane)	**8" wc**	Min.
	14" wc	Max.
Shipping Weight, Approximate	**2,281**	lbs

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

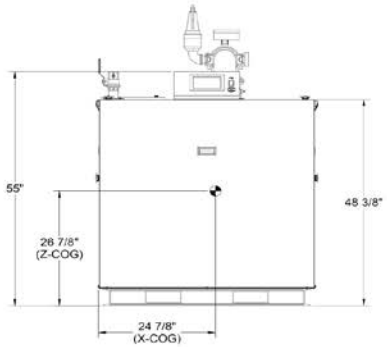
ETL Certified to UL 795 and CAN 3.1.1

DIMENSIONS / CONNECTIONS

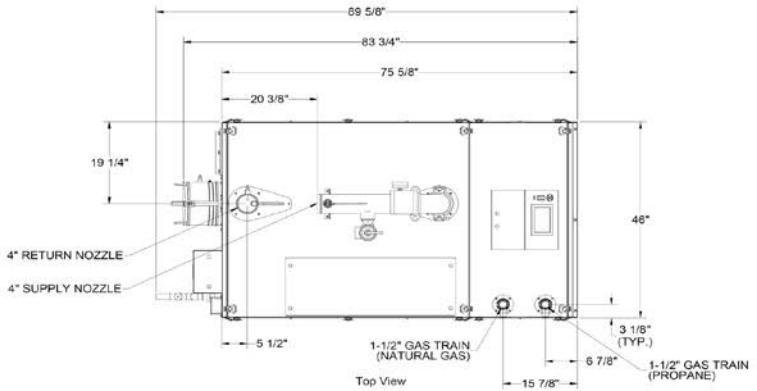
- Height	**54-7/8"**	(Note 1)
- Width	**46"**	(Note 2)
- Length	**75-5/8"**	(Note 3)
- Supply Connection	**4" Grooved**	
- Return Connection	**4" Grooved**	
- Vent / Air Intake Connections	**10"**	
- Gas Connection	**1-1/2" NPT**	

STANDARD EQUIPMENT

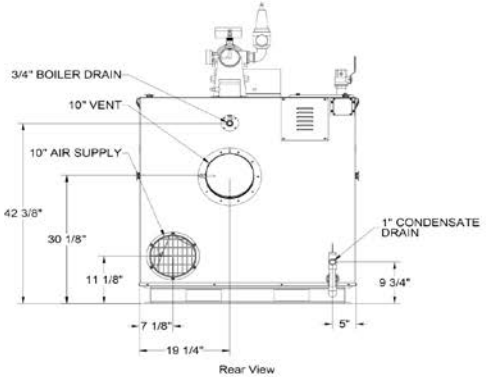
- ASME Stainless Steel Heat Exchanger
- Stainless Steel Pre-Mix Burner
- Variable Speed Combustion Blower
- Concert Control ™ (24v)
- High Limit Temperature Control, Manual Reset
- Water Flow Switch
- Low Water Cutoff, Manual Reset
- Condensate Trap
- Blocked Condensate Switch
- ASME Pressure Relief Valve
- Pressure / Temperature Gauge
- Supply & Return Temperature Sensors
- Flue Gas Temperature Sensor
- Manual Fuel Changeover Switch
- Modulating Gas Valve
- Direct Spark Ignition and UV Scanner
- High/Low Gas Pressure Switches, Manual Reset
- Combustion Air Switch
- Blocked Vent Switch
- 208-240v/1/60 Line Voltage
  - Amp Draw: 208v (14.1) and 240v (12.6)
- 208-240-460v/3ph/60hz Line Voltage
  - Amp Draw: 208v (11.0); 240v (9.9) and 460v (6.4)
- Category II and IV Venting
- Individual or Common (Engineered) Vent System
- CPVC, Polypropylene & Stainless Steel Acceptable *Material
- Sealed or Room Combustion Air Intake
- Up to 300 ft equivalent venting / air intake



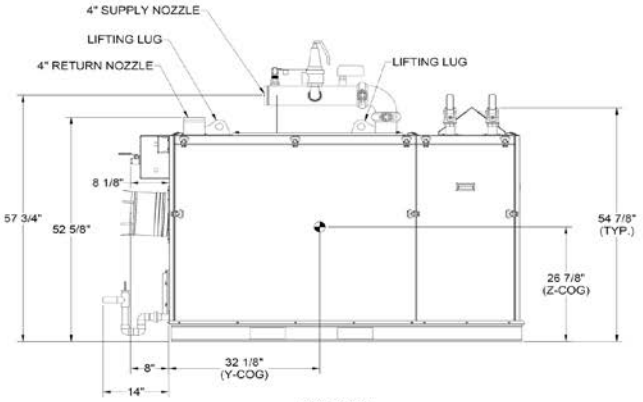
Front View



Top View



Rear View



Left Side View

NOTES:
1. Height dimension is from floor to top of control box.
2. Width does not include jacket butterfly clips that require 3/4" +/- clearance on each side.
3. Length is the measurement of the boiler skid base.
4. Dimensions shown are for reference only

FLOWS AND PRESSURE DROPS

Delta T	Flow (GPM)	△ P (Ft. Hd)
20°F △ T (Max)	**291**	**19.4**
25°F △ T	**233**	**13.4**
30°F △ T	**194**	**10.6**
35°F △ T	**166**	**8.8**
40°F △ T	**146**	**7.4**
45°F △ T	**129**	**6.0**
50°F △ T	**116**	**5.3**
55°F △ T (Min)	**106**	**4.4**

BFIT-3000-DF

PROPERTY OF

BRYAN

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* Flue system material shall be capable of continuous operation at 210°F or higher and shall be certified to UL 1738 – venting system for gas-burning appliances cat II, III and IV.

Updated 4/17/20