



Trinity Tft340-399 High Efficiency Gas-Fired Condensing Boiler

Submittal Sheet

Section 1 - Specifications
Section 2 - Dimensions
Section 3 - Electrical

Project Name: _____ Date: _____

Location: _____

Engineer: _____

Contractor: _____ Rep: _____

1 SPECIFICATIONS

General Specifications

Product Features

- Certified to ANSI Z21.13 / CSA 4.9 Gas-fired Boiler Standard
- ASME "H" stamped boiler, designed and constructed in compliance with the ASME Boiler and Pressure Vessel Code Section IV
- SA240-S43932 Stainless Steel Heat Exchanger
- Maximum operating pressure 80 psi [551 kPa]
- Modulating burner, 10:1 turndown (8:1 for model Tft340)
- Field conversion from Natural Gas (factory) to Propane
- Direct Spark Ignition
- Zero clearance to combustibles (clearances required for service)
- Wall (standard) or floor mounting (w/ opt. kit, NTI part # 84624)
- Certified as Direct Vent (sealed combustion) or for use with indoor combustion air

Factory Supplied Items

- 10k Outdoor Sensor (System Sensor optional)
- 30 PSI ASME Pressure Relief Valve
- Pressure/Temperature Gauge

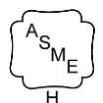
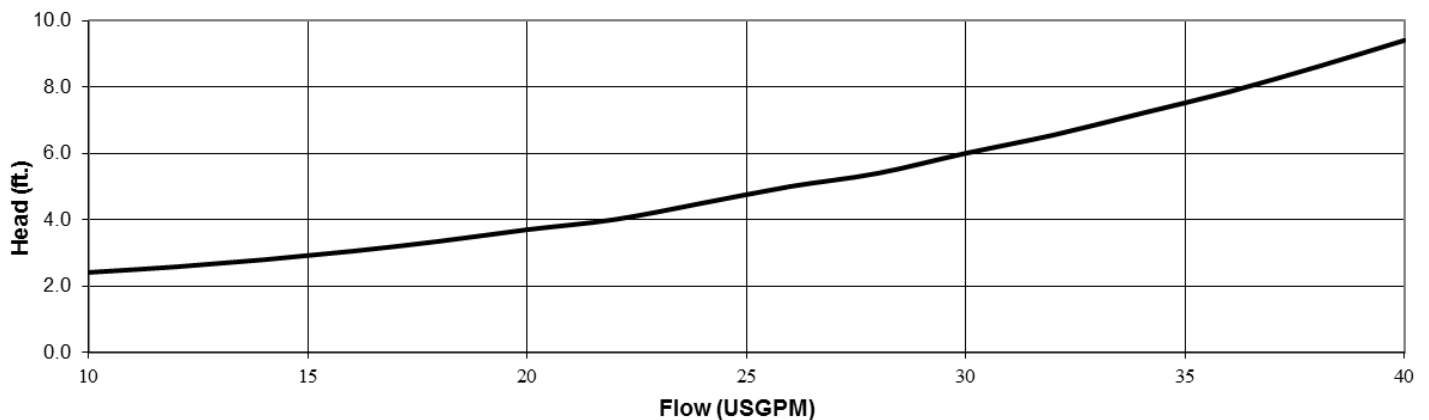
Control Features

- Integral microprocessor safety control
- 2 central heat inputs (high & low temperature)
- Domestic Hot Water Priority
- Outdoor reset
- Warm weather shutdown
- Time of day input
- Lead-Lag up to 8 Tft series boilers
- Integrated Modbus RTU for connection to BMS gateways

Water Connections NPT, in.	Gas Connection NPT, in.	Vent/Air-inlet Pipe Diameter, in.	Vent/Air-inlet Max. Length, ft.	Approx. Weight with Water, lb.
1 1/2 (Male)	3/4 (Male)	4	100	250

Performance Specifications

Model	Input Modulation (MBH)	DOE Heating Capacity (MBH)	Net I=B=R Rating (MBH)	Combustion Efficiency (%)	Thermal Efficiency (%)
Tft340	39.9 - 340	324	282	96	95.4
Tft399	39.9 - 399	380	330		



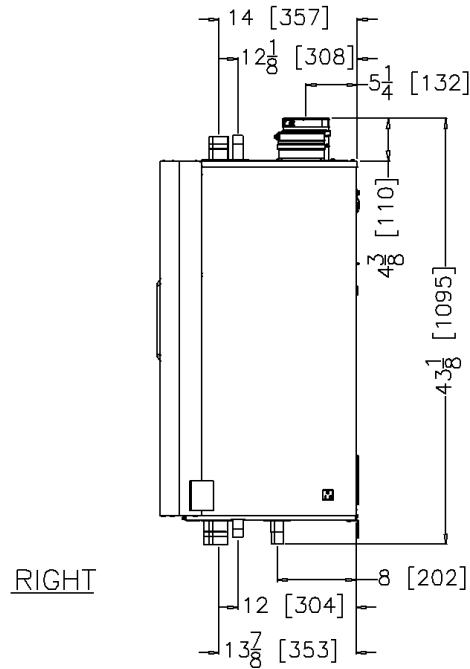
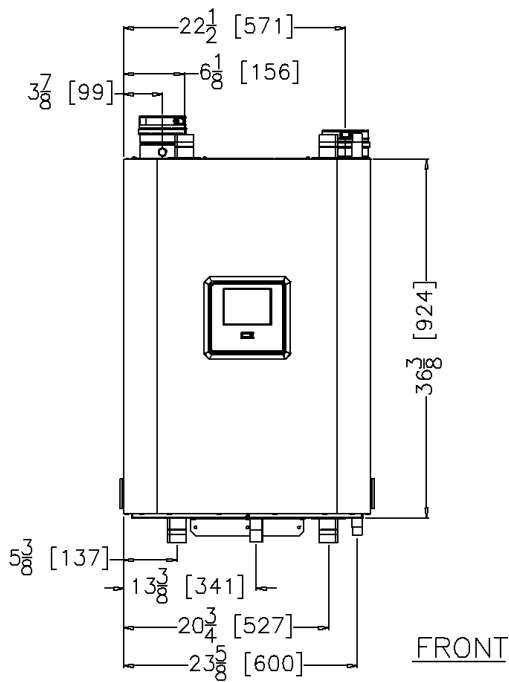
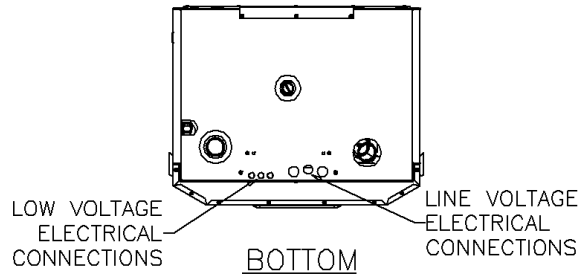
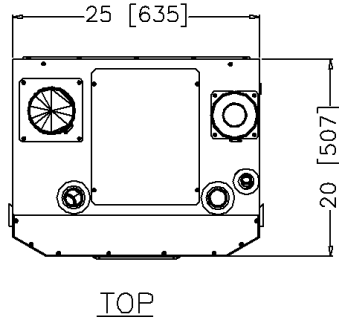


**Trinity Tft340-399
High Efficiency Gas-Fired
Condensing Boiler**

Submittal Sheet

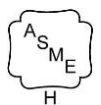
2 DIMENSIONS

Product Dimensions – in. [mm]



Recommended Clearances – in. [mm]

Top	Front	Sides	Back	Bottom	Flue Pipe
24 [610]	36 [914]	12 [305]	0	24 [610]	1 [25]





Trinity Tft340-399 High Efficiency Gas-Fired Condensing Boiler

Submittal Sheet

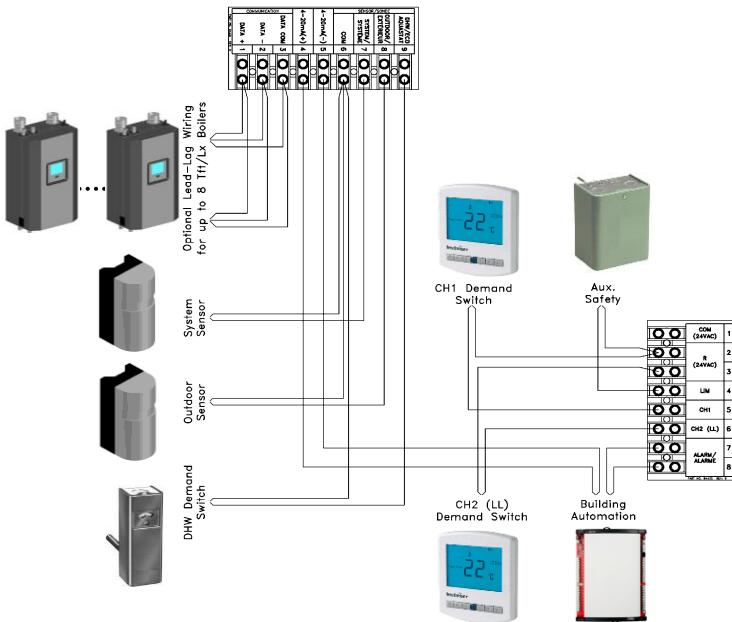
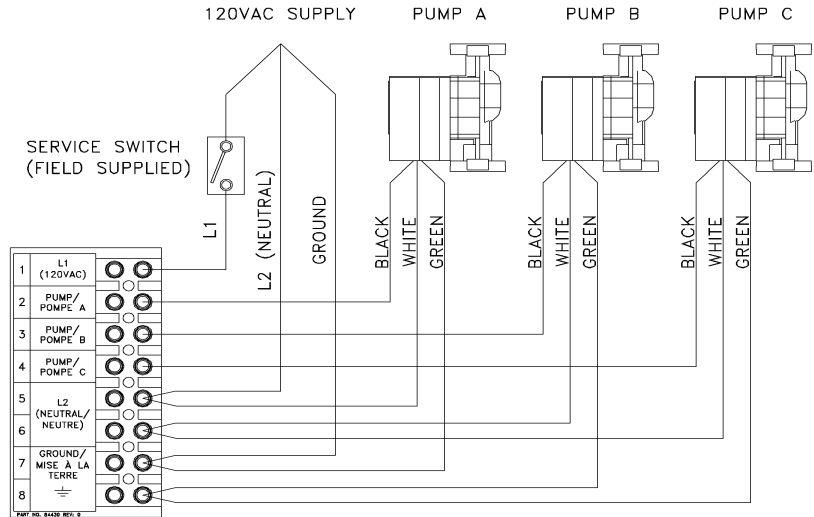
3 ELECTRICAL

Simplified Wiring Diagrams

Line Voltage Electrical:

- ▶ 120VAC / 60 Hz / 1 Phase / 12 Amp
- ▶ Barrier Strip for field wiring terminations
- ▶ 3 Pump outputs
 - Indirect Domestic Hot Water (Pump A)
 - Boiler (Pump B)
 - Central Heat (Pump C)

Note: Pumps are field supplied.



Low Voltage Electrical:

- ▶ Barrier Strip for field wiring terminations
- ▶ 120/24 VAC Transformer 40VA (factory supplied)
- ▶ Inputs
 - CH1 thermostat (by others)
 - CH2 thermostat (by others)
 - Indirect DHW aquastat (by others) or DHW Tank sensor (factory option)
 - External Limit (by others)
 - Outdoor sensor (factory supplied)
 - System sensor (factory option)
 - 4-20mA external modulating control (by others)
- ▶ Outputs
 - Alarm dry contact (24VAC 0.63A max.)
- ▶ EIA-485 Modbus communications for Lead-Lag
- ▶ EIA-485 Modbus to BMS gateways (not shown). Optional available gateways:
 - BACnet/N2- NTI part # 84946
 - LonWorks- NTI part # 84947

