Inspections Division
Date: 11/20/17

Trinity Tft155-175-200-250 High Efficiency Gas Modulating-Condensing Boiler

Submittal Shee

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 (pending)
- 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 [551.6 kPa]
- Field conversion from Natural Gas (factory) to Propane
- Modulating burner, up to 8:1 turndown
- Direct Spark Ignition
- Wall (standard) or floor mounting (w/ opt. kit, NTI part # 84630)
- Zero clearance to combustibles

▶ Optional sidewall vent kit (NTI part # 82666 & 84357)

▶ Factory Supplied Items
- 10K thermistor outdoor sensor
- 30PSI [206.8 kPa] ASME Relief Valve
- 60PSI [413.7 kPa] Pressure Gauge

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

Water Connections NPT, in.	Gas Connection NPT, in.	Vent/Air-Intake Pipe Diameter in. [mm]	Vent/Air-Intake Max. Length ft. [m]	Approx. Weight with Water lb. [kg]
1 ¼ (Male)	½ (Male)	3 [76]	100 [30.5]	180 [81.8]

Heating Specifications

Input			Heating Capacity BTU/hr [kW]	AFUE %	Net I=B=R Rating BTU/hr [kW]
Model	Min BTU/hr [kW]	Max BTU/hr [kW]			
Tft155	31,000 [9.0]	155,000 [45.4]	144,000 [42.2]	95	125,000 [36.6]
Tft175	31,000 [9.0]	175,000 [51.3]	163,000 [47.7]		141,000 [41.3]
Tft200	31,000 [9.0]	200,000 [58.6]	185,000 [54.1]		160,000 [46.9]
Tft250	31,000 [9.0]	250,000 [73.3]	230,000 [67.3]		199,000 [58.3]

Performance Specifications

NY Thermal Inc.
65 Drury Cove Road, Saint John, NB E2H 2Z8 Canada
Technical Service: 1-800-688-2575 Fax: 1-506-432-1135 Web: http:// www.nythermal.com

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NY Thermal Inc.

2 DIMENSIONS

Product Dimensions – in. [mm]

Recommended Clearances – in. [mm]

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

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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

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