



Trinity Tft300-399 High Efficiency Gas Modulating-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 [551.6 kPa]
- Field conversion from Natural Gas (factory) to Propane
- Modulating burner, 5:1 turndown
- Direct Spark Ignition
- Wall (standard) or floor mounting (w/ opt. kit, NTI part # 84624)
- Zero clearance to combustibles

► Optional sidewall vent kit (NTI part # 84355 & 84358)

► 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 1/2 (Male)	3/4 (Male)	4 [100]	100 [30.5]	250 [113.6]

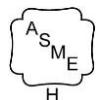
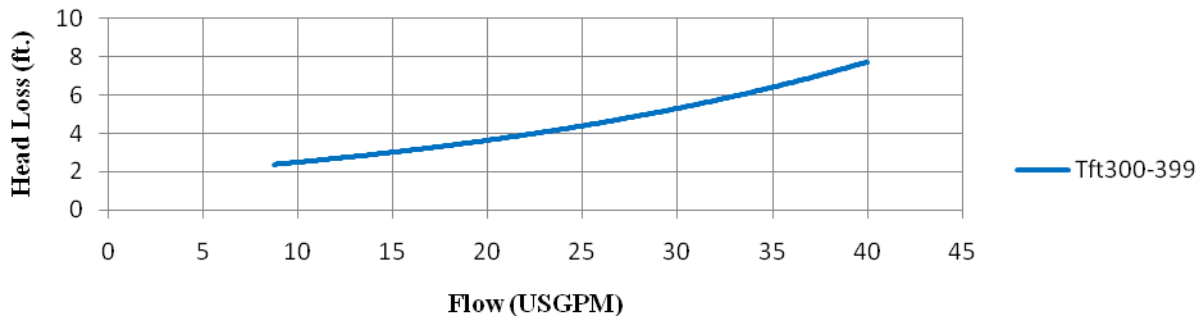
Heating Specifications

Model	Input		Heating Capacity BTU/hr [kW]	AFUE %	Net I=B=R Rating BTU/hr [kW]
	Min BTU/hr [kW]	Max BTU/hr [kW]			
Tft300	79,800 [23.4]	299,000 [87.6]	278,000 [81.4]	94	241,000 [70.5]
Tft399	79,800 [23.4]	399,000 [116.9]	380,000 [111.2]	95.4 ¹	330,000 [96.6]

1 – AFUE ratings do not apply to units with ratings greater than 299MBH; efficiency listed for the Tft399 is Thermal Efficiency.

Performance Specifications

Trinity Tft300-399 Performance



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>

NY Thermal Inc. reserves the right to change these specifications without notice

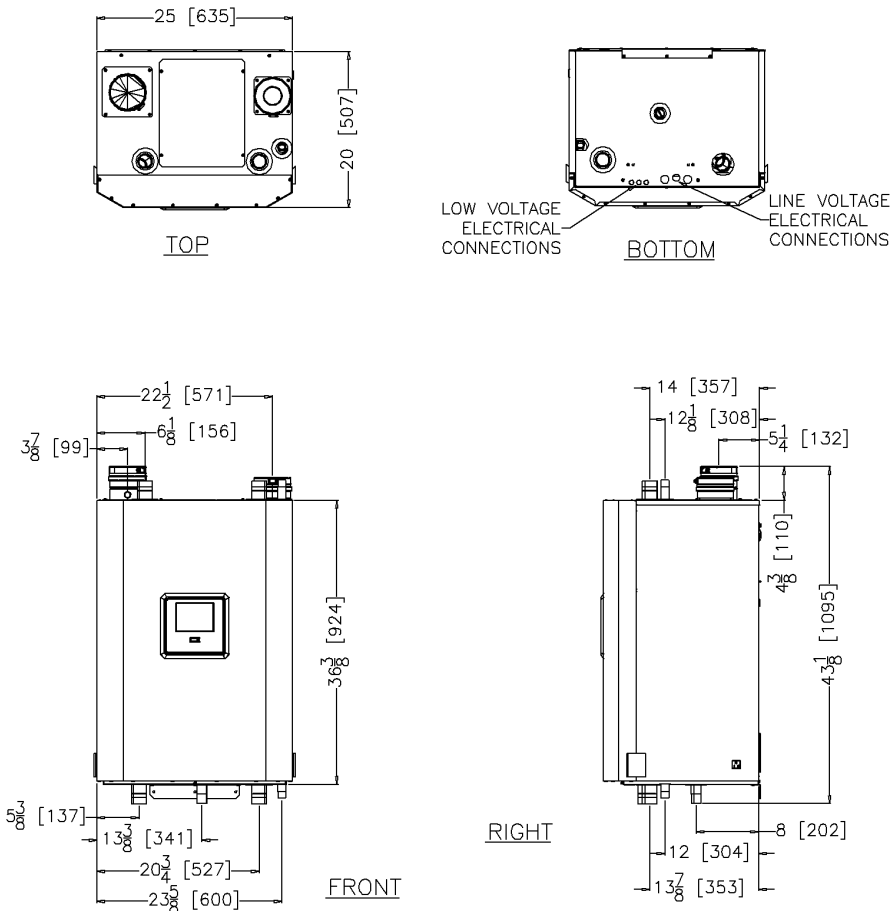


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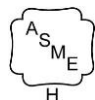
2 DIMENSIONS

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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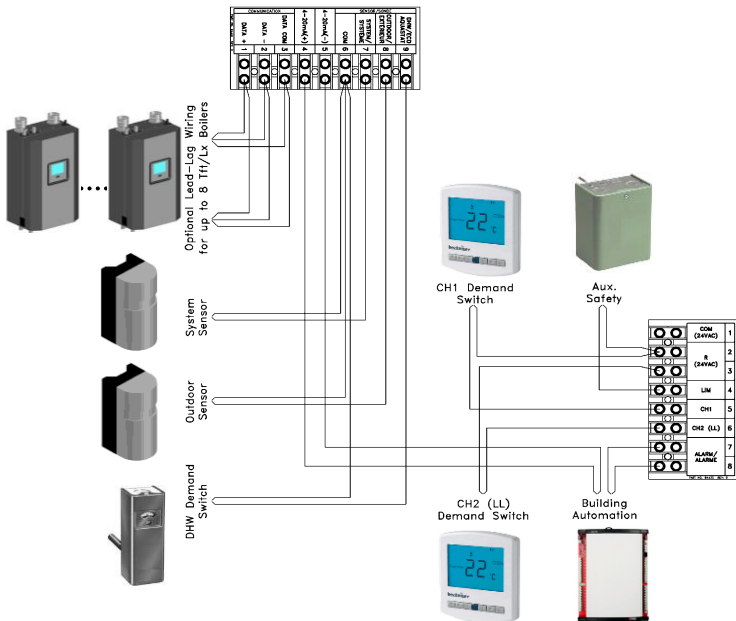
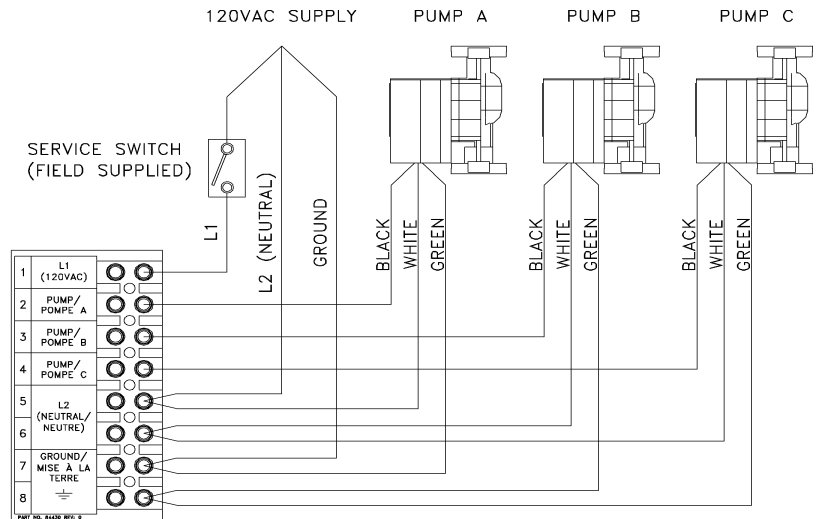
3 ELECTRICAL

Simplified Wiring Diagrams

Line Voltage Electrical:

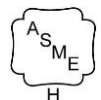
- ▶ 120VAC / 60 Hz / 1 Phase / 12 Amp
- ▶ Barrier Strip for field wiring terminations
- ▶ 3 Pump outputs
 - Indirect Domestic Hot Water (Pump A)
 - Boiler (Pump B)
 - Central Heat (Pump C)

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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