



# TRX Series II

## High Efficiency Gas-Fired Condensing Boiler

### SUBMITTAL SHEET

I - General Specifications

II - Product Specifications

Project Name		Date	
Location			
Engineer			
Contractor		Rep	

## I - GENERAL SPECIFICATIONS

Product Features	
	Certified to ANSI Z21.13 / CSA 4.9 Gas-fired Boiler Standard
	ASME "H" stamped boiler <small>(designed and constructed in compliance with the ASME Boiler and Pressure Vessel Code Section IV)</small>
	Wall mounted
	Zero clearance to combustibles <small>(clearances required for service)</small>
	Certified as Direct Vent (sealed combustion) or for use with indoor combustion air
	Sealed cabinet
	High energy ignition transformer <small>(spark ignition)</small>
	Built-in water pressure bypass <small>(guarantees minimum water flow)</small>
	Low water pressure sensor
	Integrated ECM boiler circulator
	Integrated 3-way valve <small>(diverts between DHW and CH demands)</small>
	Integrated Condensate Trap
	Setup Wizard
	120 VAC output for external CH circulator
	Built-in DHW flow sensor, with serviceable filter*
	Built-in DHW brazed plate heat exchanger *
	Two dry contact inputs for CH and 2 dry contact outputs for zone control
	Wi-Fi remote connectivity embedded
	Outdoor temperature sensor input <small>(or access weather via Wi-Fi connection)</small>
	Adjustable flue temperature limit

Control Features	
	Integral micro processor safety control - flame safeguard and temperature
	BURNER TEST Mode - for combustion setup
	AUTO function (outdoor/indoor reset) <small>resets boiler temperature depending on outdoor and/or room temperature</small>
	Adjustable reset curve
	Adjustable reset temperature boost
	Summer/Winter changeover (WWSD) <small>(with optional NTI Room Sensors)</small>
	Integrated programmable T-stat x 2
	Adjustable freeze protection
	Factory settings restore option
	Cascade up to 8 TRX/FTVN/Compass-series boilers
	Selectable DHW Preheat feature*
	Adjustable post purge timer*
	Adjustable ignition delay timer
	Manual mode operation (pump/fan/diverter)
	Boiler statistics
	Lockout and error history
	Optional 0-10V / 4-20mA input clip-in module <small>order code: 3319457</small>
	Optional NTI 3-Zone Pump/Valve Controller <small>order code: 3260184</small>
	Optional Room Sensor <small>order code: 3319455</small>

\*For DHW combination boilers (models end in "C" only)

### Factory Supplied Items

	10K thermistor outdoor sensor		LP conversion kit
	30 psi ASME pressure relief valve		Vent screens
	Pressure and temperature gauge		



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## II - PRODUCT SPECIFICATIONS

Specifications		UNITS	TRX085	TRX120	TRX150	TRX199	TRX110C	TRX150C	TRX199C
Capacity	Input Rating CH <sup>1</sup>	MBH	9.4-85	13.2-120	15-150	19.7-197	11.2-106	13.2-120	19.7-197
	Input Rating DHW <sup>1</sup>						11.2-114	13.2-150	
	Heating Capacity <sup>1 2</sup>		79	11	139	184	98	111	184
	Net AHRI Rating, Water <sup>2</sup>		69	97	121	160	85	97	160
	Modulation (turndown)		9:1		10:1		11:1		10:1
Performance	AFUE	%	96	95		95.5	95		
Temp Range	Ambient	°F(°C)	33-104 (0.6-40)						
	Boiler Setpoint		68-179 (20-82)						
	DHW Indirect setpoint		104-149 (40-65)						
	DHW setpoint		97-140 (36-60)						
Pressure	Max Water Central Heating	PSI	55	50		55	50		
	Max Water DHW		N/A				125	150	
	Heat Exchanger MAWP	N/A							
	Pressure Relief Valve	30							
	Gas Supply NG	In. W.C.	3.5-10.5						
	Gas Supply LP		8-13						
Heat Exchanger	Material	441 Stainless							
	Type	Watertube							
DHW Flow	35°F Rise	GPM	N/A				5.9	7.8	10.5
	45°F Rise		N/A				4.6	6.1	8.2
	77°F Rise		N/A				2.7	3.5	4.8
Connections	Water (Heating)	In	1" Sweat	1-1/4" Male NPT		1" Sweat		1-1/4" Male NPT	
	Water (DHW)		3/4" Sweat	3/4" Male NPT		3/4" Sweat		3/4" Male NPT	
	Gas	3/4" Male NPT							
	Vent Connection (from factory)	In	2	3		2		3	
Venting Length <sup>3</sup>	2" Min-Max Exhaust	Ft	6-100						
	2" Min-Max Inlet		0-100						
	3" Min-Max Exhaust		6-150						
	3" Min-Max Inlet		0-150						
Vent System <sup>3</sup>	Type	Cat IV, Sealed Combustion, Direct Vent, Power Vent							
	Materials Allowed <sup>4</sup>	PVC/CPVC/PP							
Electrical	Power Supply	V/hz/ph/a	120/60/1/less than 12						
	Main Controller	Type	Ariston LCD Display & GalEvo2-NA Control						
Volume	Water Content	Gallons	1.1	1.2	2	2.7	1.1	1.2	2.7

<sup>1</sup> Listed Input and Output Ratings are at minimum vent lengths at an altitude of 0 - 2000 ft. Numbers will be lower with longer venting and/or altitudes greater than 2000 ft.

<sup>2</sup> Ratings based on standard test procedures prescribed by the US Department of Energy and certified to ANSI Z21.13/CSA 4.9

<sup>3</sup> The TRX requires a special venting system. Use only the vent materials and methods detailed in these installation instructions.

<sup>4</sup> It is permissible to use SS vent material, however, only PVC/CPVC/PP can be directly inserted into the appliance adapters.



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## II - PRODUCT SPECIFICATIONS CONT'D...

Specifications									
		UNITS	TRX085	TRX120	TRX150	TRX199	TRX110C	TRX150C	TRX199C
Weight	Approx "Full" Boiler	Lbs	88	89	115	130	91	93	135
	Shipping		78	84	115	130	83	84	135
Dimensions	Width	In	16-3/4		19-3/4	19-3/4	16-3/4	16-3/4	19-3/4
	Height		45-5/8		38-1/4	38-1/4	43-5/8	45-5/8	38-1/4
	Depth		15-1/8		18-1/2	18-1/2	15-1/8	15-1/8	18-1/2
Min Clearance	Front	In	18						
	Top		14						
	Sides		2						
	Back		0						
	Bottom		12						
	Flue Pipe		1						
System	Ignition	Type	Direct Electronic Spark/Flame Rectification						
	Burner		Premixed Fuel Modulation/Stainless Steel Burner						
	Gas Valve		Air Ratio Valve						
Cabinet	Material		Painted Stainless and Plastic	Painted and Galvanized Steel		Painted Stainless and Plastic	Painted and Galvanized Steel		
	Safety Devices		Flame Rectifier Probe, Temperature Limit Control (190°F), Water Pressure Switch (Min. 8 PSI), Freeze Protection, Condensate Trap, Flue Temperature High Limit Sensor (199°F)						



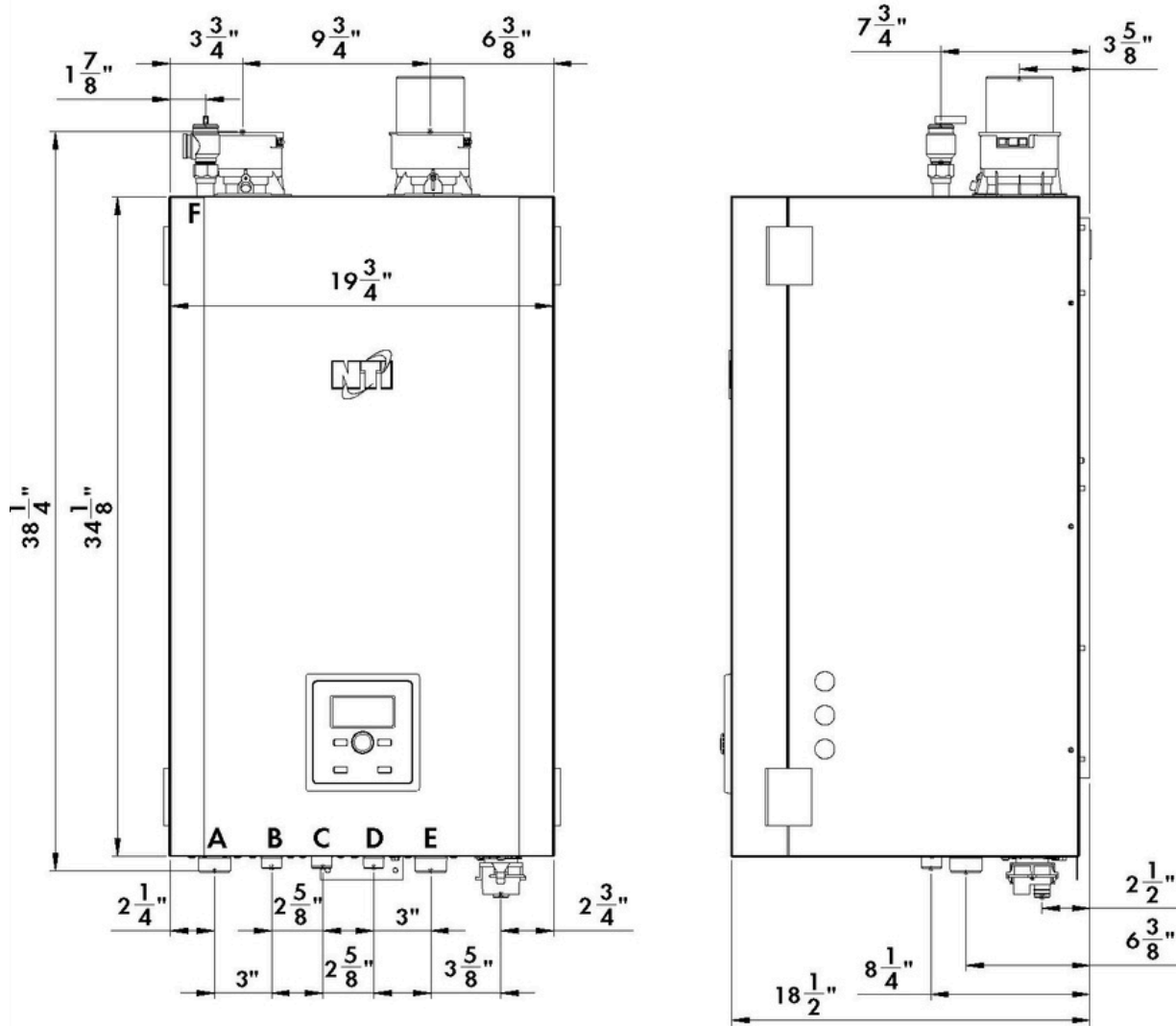
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**II - PRODUCT SPECIFICATIONS** CONT'D...



	<b>TRX150 and TRX199</b>	<b>TRX199C</b>
A	Central Heating Supply	Central Heating Supply
B	Supply to Indirect Water Heater	Domestic Hot Water Outlet
C	Gas Inlet	Gas Inlet
D	N/A	Domestic Hot Water Inlet
E	Central Heating Return	Central Heating Return
F	Pressure Relief Valve	Pressure Relief Valve



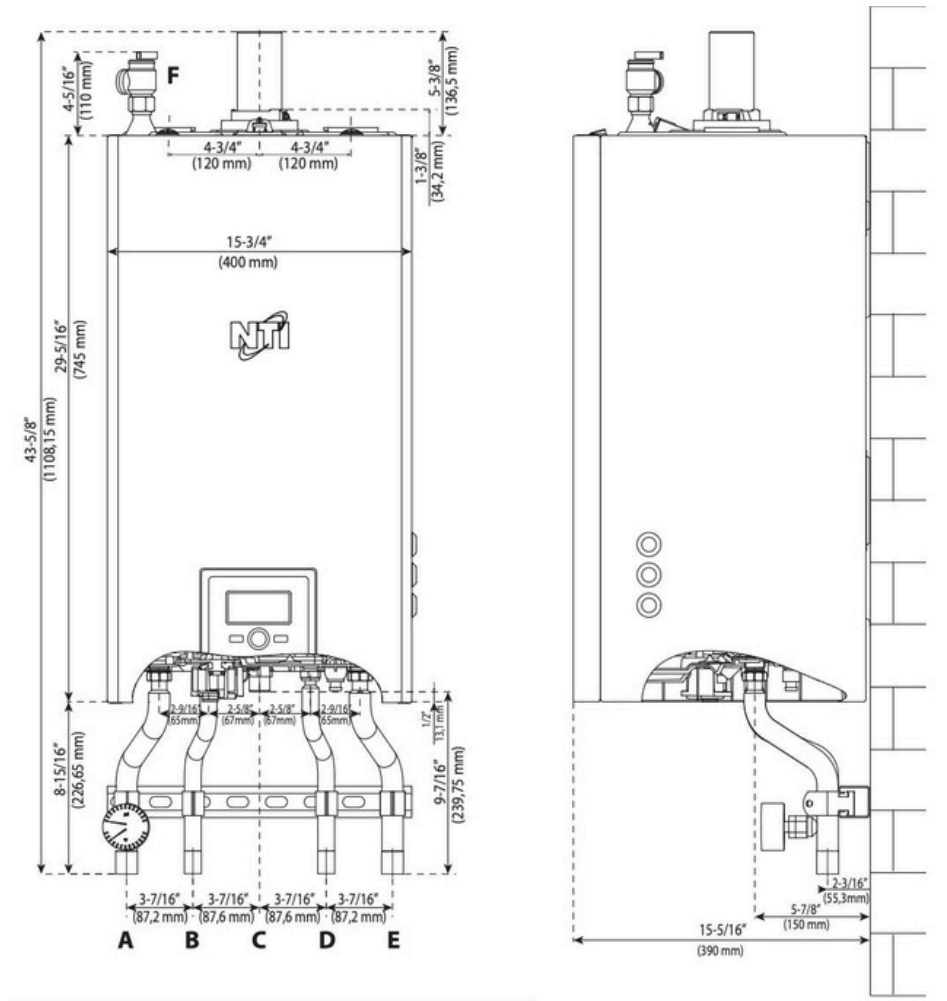
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**II - PRODUCT SPECIFICATIONS** CONT'D...



	<b>TRX085 AND TRX120</b>	<b>TRX110C AND TRX150C</b>
A	Central Heating Supply	Central Heating Supply
B	Return from Indirect Water Heater	Domestic Hot Water Outlet
C	Gas Inlet	Gas Inlet
D	Domestic Hot Water Inlet	Domestic Hot Water Inlet
E	Central Heating Return	Central Heating Return
F	Pressure Relief Valve	Pressure Relief Valve