

SUBMITTAL SHEET

I - General Specifications

II - Product Specifications

Project Name	Date	
Location		
Engineer		
Contractor	Rep	

I - GENERAL SPECIFICATIONS

	Product Features						
0	Certified to ANSI Z21.13 / CSA 4.9 Gas-fired Boiler Standard						
0	SA-240 S43932 Chromium Stainless Steel Fire Tube Heat Exchanger						
0	ASME "H" stamped boiler, designed and constructed in compliance with the ASME Boiler and Pressure Vessel Code Section IV						
0	Maximum operating pressure 50 psi						
C	Wall mounted						
C	Zero clearance to combustibles (clearances required for service)						
0	Modulating burner, 10:1 turndown ratio						
C	Certified as Direct Vent (sealed combustion) or for use with indoor combustion air						
0	Sealed cabinet						
C	High energy ignition transformer (spark ignition)						
0	Built-in water pressure bypass (guarantees minimum water flow)						
0	Low water pressure sensor						
0	Integrated ECM boiler circulator						
C	Integrated 3-way valve (diverts between DHW & CH demands)						
0	Integrated Condensate Trap						
C	Setup Wizard						
C	Two 120 VAC outputs for external circulators (DHW/CH)						
C	DHW zone input (tank thermostat or sensor)						
2	Two dry contact inputs for CH and 2 dry contact outputs for zone control						
2	Wi-Fi remote connectivity embedded						
S	Outdoor temperature sensor input (or access weather via Wi-Fi connection)						
C	Adjustable flue temperature limit						

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

	Factory Supplied Items						
C	10K thermistor outdoor sensor						
C	30 psi ASME pressure relief valve						
C	Pressure and temperature gauge						
0	LP conversion kit						
2	Vent screens						

order code: 3319455











Optional Room Sensor



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II - PRODUCT SPECIFICATIONS

Specifications									
		UNITS	FTVN085	FTVN120	FTVN150	FTVN199	FTVN110C	FTVN150C	FTVN199C
	Input Rating CH ¹ Input Rating DHW ¹	МВН	8.5-85	11-110	15-150	19.9-199	11-110	15-150	19.9-199
Capacity	Heating Capacity ^{1 2}		79	101	138	184	101	138	184
	Net AHRI Rating, Water ²		69	88	120	160	88	120	160
	Modulation (turndown)			•		10:1			
Performance	AFUE	%	96			9	95		
	Ambient		33-104 (0.6-40)						
Ta Da	Boiler Setpoint	∘E(∘C\			68	8-179 (20-8	32)		
Temp Range	DHW Setpoint (Indirect)	°F(°C)			10	4-149 (40-	65)		
	DHW Setpoint (Combi)				9:	7-140 (36-6	50)		
	Max Water Central Heating	DCI				50			
	Max Water DHW		N/A					150	
Pressure	Heat Exchanger MAWP	PSI	50						
rressure	Pressure Relief Valve		30						
	Gas Supply NG	In. W.C.	3.5-10.5						
	Gas Supply LP	in. vv.C.	8-13						
Heat Exchanger	Material		SA-240 S43932 Chromium Stainless Steel						
riedi Exchanger	Туре				A	SME Fire Tu	be		
	35°F Rise						5.8	7.9	10.5
DHW Flow	45°F Rise	GPM	N/A			4.5	6.1	8.2	
	77°F Rise		2.6				2.6	3.6	4.8
	Water (Heating)		1-1/4" Male NPT						
Connections	Water (DHW)	ln	3/4" Male NPT (return from indirect) 3/4" Male NPT						
Connections	Gas		3/4" Male NPT						
	Vent Connection (from factory)	ln	3						
	2" Min-Max Exhaust		6-100						
Venting Length ³	2" Min-Max Inlet	Ft Ft	0-100						
veniing Lengin ^e	3" Min-Max Exhaust	1 [6-150						
	3" Min-Max Inlet		0-150						
V C3	Туре		Cat IV, Sealed Combustion, Direct Vent, Power Vent						
Vent System ³	Materials Allowed ⁴		PVC/CPVC/PP						_
Electrical	Power Supply	V/hz/ph/a	120/60/1//less than 12						
Electrical	Main Controller	Туре	Ariston LCD Display & GalEvo2-NA Control						
Volume	Water Content	Gallons	2	.1	3.0	3.7	2.2	3.1	3.8

¹ 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.













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

³ The FTVN requires a special venting system. Use only the vent materials and methods detailed in these installation instructions.

⁴ It is permissable 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	FTVN085 FTVN120	FTVN150	FTVN199	FTVN110C	FTVN150C	FTVN199C	
Weight	Approx "Full" Boiler	Lbs	107	124	145	108	125	146	
vveignt	Shipping	LDS	110	120	135	111	121	136	
	Width		19-3/4						
Dimensions	Height	ln	38-1/4						
	Depth		18.5						
	Front		18						
	Тор	In	14						
Min Clearance	Sides		2						
Willi Clearance	Back		0						
	Bottom		12						
	Flue Pipe		1						
	Ignition		Direct Electronic Spark/Flame Rectification						
System	Burner	Туре	Premixed Fuel Modulation/Stainless Steel Burner						
	Gas Valve		Air Ratio Valve						
Cabinet	Material		Painted Steel						
			Flame Rectifer Probe, Temperature Limit Control (190°F), Water Pressure Switch						
Sataty Hayres				e Protection, Condensate Trap, Flue Temperature High Limit Flocked Condensate Pressure Switch, Blocked Vent Pressure Switch					







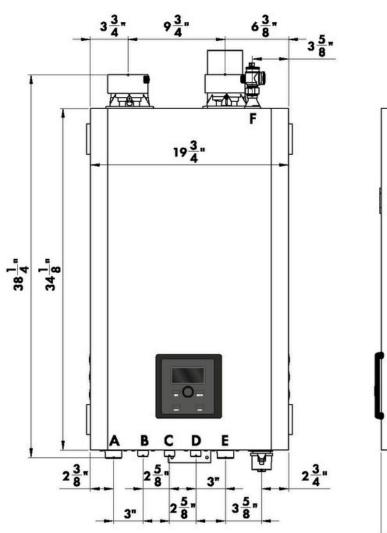


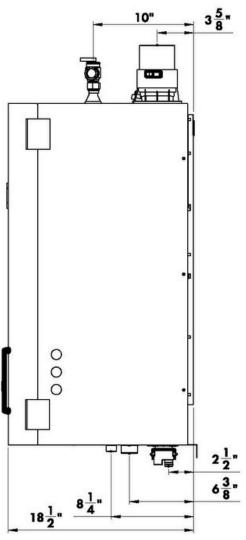


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II - PRODUCT SPECIFICATIONS CONT'D...





	Non-Combi Models	Combi Models
А	Central Heating Supply	Central Heating Supply
В	Supply to Indirect Water Heater	Domestic Hot Water Outlet
С	Gas Inlet	Gas Inlet
D	N/A	Domestic Hot Water Inlet
Е	Central Heating Return	Central Heating Return
F	Pressure Relief Valve	Pressure Relief Valve







