

HTP Comfort Solutions LLC. • 272 Duchaine Blvd, New Bedford, MA 02745 • www.htproducts.com

# UFT Fire Tube Boiler Submittal Sheet

Models: UFT-80 / 100 / 120 / 140 / 175 / 199 - Floor ("F") or Wall ("W") Mount Models

LOCATION:

ARCH. / ENGR.:

# WHOLESALER:

MECH. CONTRACTOR:

MODEL NUMBER:

#### **BTU/HR INPUT LOW - HIGH FIRE:**

TYPE OF GAS:

# NOTES:

# Heat Exchanger

- All 316L Stainless Steel ASME "H" Stamped Construction
- National Board listed
- Low pressure drop, gasketless, vertical tube combustion heat exchanger design –with internal aluminum fins inserted into the individual fire tube circuits to increase heat transfer capabilities
- Fire tube design provides maintenance-free operation on internal buildup of material inside the combustion chamber
- 30 PSI Relief Valve for All UFT models

#### **Combustion System**

- Modulating burner with up to 10 to 1 turndown (175kBTU models shall have a turndown of 8.79 to 1)
- Up to 96% AFUE
- High Grade Ceramic Metal Fiber Burner Design
- Spark Ignition
- Models Available for Natural or LP Gas
- Optical Flame monitoring

#### **Integrated Control System**

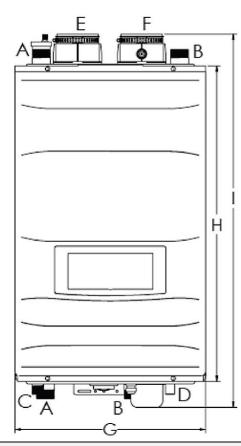
- Digital operating control with LCD display to program and monitor boiler operation
- Pump outputs for Boiler Pump System Pump DHW Pump with Domestic Hot Water priority with timing
- Programmable settings: Outdoor Reset Curve DHW Supply Set Point – Step Sequence for delayed response for small zones – Boost Function - Cascade up to 20 boilers -Field Program Service reminders with date or runtime activation
- Connection Board Line voltage terminal strip with 120 VAC / 60 Hertz power / low voltage terminal strip with multiple contacts - Cascade wiring
- 0-10 VDC input Building Management System
- Boiler output regulation (Adjustment of boiler output from 100 to 50 percent )
- Built in Low water cut off
- Fault History logging Last 10 fault codes
- Customized freeze protection parameters

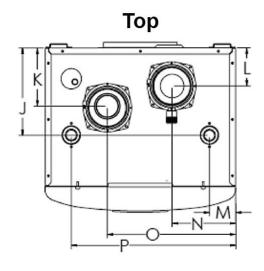
#### **Additional Features**

- Superior condensate collection system with overflow protection switch
- Vents in Plastic PVC CPVC Stainless Steel ULC S636 flexible polypropylene vent liner (chimney lining only)
- Vents up to 100 combined equivalent feet in 3 inch pipe or 50 feet in 2 inch pipe
- 10 Year Limited Residential Warranty
- 5 Year Limited Commercial Warranty
- Manual reset high temperature limit
- Included wall mount bracket (Wall Models Only)
- Corrugated condensation hose with built in vent
- Automatic Air vent installed on boiler
- Additional Fittings for Relief Valve installation
- Two included 3 inch vent screens
- Low NOx emissions SCAQMD Certified
- Floor or Wall Mount models available
- Piping adapters can be moved from the left to the right side of floor mount models to ease installation

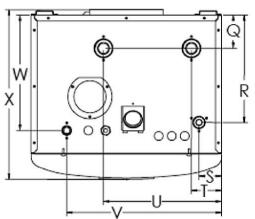
# <u>Optional</u>

- System / Pipe Sensor (Part # 7250P-324)
- Indirect Water Heater Sensor (7250P-325)
- **3**" Polypro Flex Vent Kit (8400P-001)
- 3" (80mm) PP Concentric Vent Kit (KGAVT0601CVT)
- **3**" Stainless Steel Termination Vent Kit (V1000)
- 4" Stainless Steel Termination Vent Kit (V2000)
- Condensate Neutralizer (7450P-212)
- U.L. 353 Compliant Low Water Cut-Off Interface Kit w/ Manual Reset for UFT Boiler (7855P-315)
- Cascade Communication Cable (7850P-093)



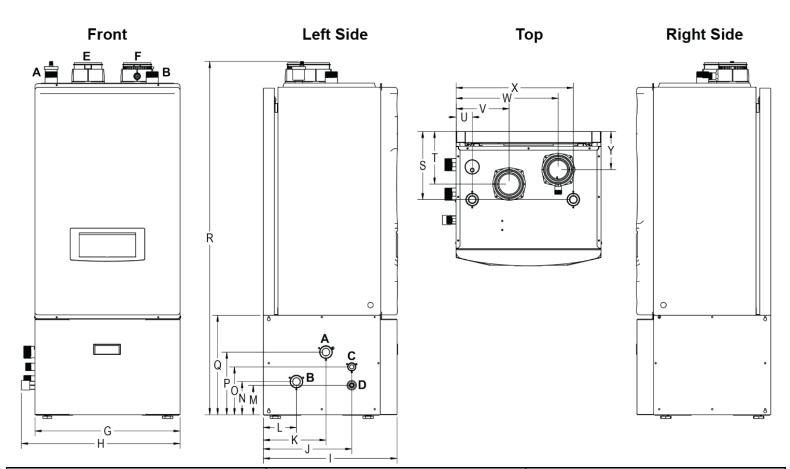






								De	scripti	on			Diameter					
A CH Supply Adapter										NDT	r							
		В						CH Re	turn Ac	lapter			1 1/4″ NP1					
		С						Gas I	nlet Ada	apter			1 1/4" NPT 3/4" NPT 1/2" NPT 3" <b>S T U V W</b>					
		D						Conde	nsate A	dapter			1/2″ NPT					
E						Air Intake Adapter						2″						
		F						Exhaus	t Vent A	dapter			3″					
Model	G	н	I	J	К	L	м	Ν	ο	Р	Q	R	S	Т	U	v	w	Х
80 / 100 120 / 140	17.5	28.75	34	7.9	5.3	3.5	2.4	5.8	11.7	14.9	3.0	9.8	3 2.7 10.7 14.1 2.1		10.5	15.4		
175 / 199	19.7	31.9	37	7.2	5.1	3.2	3.75		12.5	17.5	4	11.1		2.2	11.7	15.8	11.8	16.8

Table 1- Wall Model Specifications and Dimensions



									Des	criptio	on			Diameter						
		CH Supply Adapter							1.1/4//NDT											
		E	3					C	H Ret	urn Ad	apter			1 1/4 <sup>*</sup> NP1						
		C	2					(	Gas In	let Ada	apter			1 1/4" NPT 3/4" NPT 3/4" PVC Socket 3" T U V W X						
		۵	)					Co	onden	sate A	dapter			3/4" PVC Socket						
	E							Air Intake Adapter						2″						
		F	=					Ex	haust	Vent A	dapter			3″						
Model	G	н	I	J	К	L	м	N	0	Р	Q	R	S	т	U	v	w	х	Y	
80 / 100 120 / 140	17.3	19.1	16.8	12.0	8.5	4.5	4.0	4.5	6.5	8.5	13.5	45.0	10.0	7.4	2.3	5.7	11.5	14.9	5.5	
175 / 199	19.7	21.5	18.1									48.0	9.2	7.1	2.2	7.2	14.0	16.0	5.2	

Table 2- Floor Model Specifications and Dimensions

	Model	80	100	120	140	175	199					
In	stallation	Indoor, Wall Mounted Model or Floor Model, Fully Condensing										
Minimum / Ma	ximum Input (Btu/Hr)	8,000 / 80,000	10,000 / 100,000	12,000 / 120,000	14,000 / 140,000	19,900 / 175,000	19,900 / 199,000					
Fl	ue System	Sealed Combustion Direct Vent, Power Vent										
١	/ent Run	2" (50 feet), 3" (100 feet), Schedule 40 PVC, CPVC, PP										
Weight (lbs	) Wall Mount Model		90	10	00	110						
Weight (	lbs) Floor Model		120	13	30	140						
Gas Supply	NG											
Pressure	LP	3.5" to 14" WC										
Power	Main Supply	120V 60 Hz, 6A										
Supply	Maximum Power Consumption			16	60W							
General Op	erating Conditions		Operat Shipping ar	EMC: 89	ty: Up to 90% at 140 <sup>0</sup> ure Range: -4 – 176 <sup>0</sup>	<sup>0</sup> F (40 <sup>0</sup> C) F (-20 – 80 <sup>0</sup> C)						
Igni	tion System	Direct Electronic Ignition / Automatic Flame Sensing										
Bur	ner System	Premixed Fuel Modulation / Ceramic Fiber Infrared										
Gas \	/alve System	Combination Modulating (Current Proportional)										
Interna	l Pipe Material	Copper										
Wall Mount	Model Dimensions		W 19.7″ - H	7″ - H 37″ - D 16.8″								
Floor Mo	odel Dimensions		W 19″ - H	W 22″ - H 4	W 22″ - H 48″ - D 18″							
Heat Exchar	iger Water Capacity	3 Gallons										
Control Pan	el / Main Controller	P-950EH / NGTB-900C										
Wat	er Pressure	Min 12 - Max 30 PSI										
Connection	Space Heating Supply / Return	1 1/4″ NPT										
Sizes	Gas Inlet	3/4" NPT										
	Cabinet (Wall Mount Model)	Painted Cold Rolled Carbon Steel										
Materials	Cabinet (Floor Model)	Galvaneal										
	Heat Exchanger			316L Stainless Steel								
Saf	ety Devices	Optical Flame Sensor, Burner Plate High Limit (392°F), Water Temperature High Limit Sensor (200°F), Freeze Protection (Three Stage Operation - Activates at 46°F – See Freeze Protection in Installer Menu for Details), Exhaust Temperature High Limit Sensor (190°F), Blocked Flue Switch, Condensate Switch, Built-In Low Water Cut- Off Probe										