FT SERIES



Residential Hydronic Boiler

Date:	LFTHF	Floor Standing, Boiler	
	Indoor, Sizes 199		
Project #:		Heating Systems Company	
	Subm	ittal Data	
Engineer:	Project N	ame:	
Prepared By:	Location:		
Bid Date:	Contracto	r:	

Standard Equipment

- High condensing efficiency 95.3% AFUE
- ASME 30 psi (207 kPa) working pressure
- · ASME "H" stamp
- Stainless steel fire tube heat exchanger with welded construction
- Integral stainless steel buffer tank serves as low loss header
- Boiler pump wired and mounted inside jacket
- Full modulation 100% to 10% (10:1 turndown)
- · Electronic PID modulating control
- · Large user interface and display
- Receptacle for condensate pump (2A max)
- Supply and return boiler sensors
- Smart DHW priority

- Bonus TT connection for high temp zone
- Accepts 0-10VDC temp setpoint signal
- Outdoor reset (w/ sensor)
- Customizable freeze protection
- · Anti-short cycle
- · Direct spark ignition
- · Manual reset high limit
- Sealed combustion chamber
- _
- Pre-mix ceramic fiber burner
- Natural gas with propane conversion kit included
- · Horizontal or vertical direct vent
- Concentric or two-pipe venting options
- Vent and air pipe lengths of up to 100 equivalent feet (each)
- Vent with PVC, CPVC, stainless steel, or polypropylene

- Built-in condensate trap and drain, priming not required
- 3-in-1 brass pipe adapter (for air vent, PRV, optional LWCO)
- 30 psi (207 kPa) pressure relief valve
- Removable and cleanable inlet air filter
- · Adjustable leveling feet
- · Three service panels
- Gas leak detection
- · Automatic air vent
- Pressure gauge
- · Boiler water pressure switch
- · Blocked vent pressure switch
- Blocked condensate pressure switch
- · Burner site glass
- 10-Year limited warranty







Boiler Data

Number of Units:	Fuel
	Natural*

Field Installed Accessories

Horizontal Concentric 2" PVC Termination

Horizontal Concentric 3" PVC Termination

Concentric Flush-Mount 2" Vent Terminal

Concentric Flush-Mount 3" Vent Terminal

Appliance Adaptor for Stainless Steel Concentric Vent

Appliance Adaptor/Starter Kit for Polypropylene Concentric Vent

Polypropylene Offset Kit

Polypropylene to Stainless Steel Adaptor

Polypropylene Telescopic Concentric and 90° Elbow Kit

2" Vent/Air Pipe Screen*

Sizing Data

Model	Input	AHRI Certified Heating Capacity	Net AHRI Rating	AHRI Certified AFUE	Gas Conn. Size	Heating Supply & Return Conn. Size	Shipping Weight
	MBH kW	MBH kW	MBH kW	%	inches	inches	lbs kg
FTHF199	199 <i>58</i>	182 53	158 46	95.3	3/4 NPT	1-1/2 NPT	146 66

NOTES:

1. For other boiler ratings:

Roiler Horsenower: HP = 0

Boiler Horsepower: HP = <u>Output</u> 33,475

Radiation Surface: EDR sq. ft. = Output

2. The Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15.

^{*}Boilers shipped set up for use with Natural Gas and include a Propane conversion kit.

^{*}Note that boiler is shipped with two 3" screens

Clearances

APPLIANCE SURFACE	SUGGESTED SERVICE INCHES	ACCESS CL CM	EARANCE
Left Side	6	15	
Right Side	6	15	
Тор	24	61	
Back	1	2.5	
Front	18	46	
Bottom	0	0	

Electrical Data

Size	Boiler			
	Volts	Phase	Amps	
FTHF199	120	Single	4	

Minimum 15A circuit required.

Maximum 2A draw allowed on convenience receptacle.

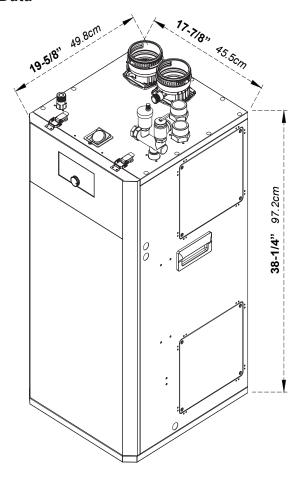
Vent System

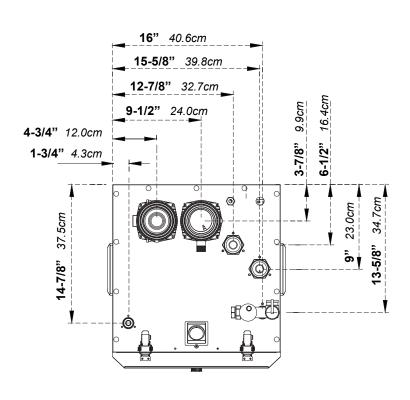
INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)							
	STANE	ARD	2-PIPE	STANE	ARD 2	PIPE	
SIZE	DIA.	FT.	m	DIA.	FT.	m	
199	2" *	50	15.2	3"	100	30.5	

^{*} Must use 3x2 adapter within 1ft (3cm) of boiler. Reference the Installation and Operation Manual for more details.

FT SERIES Residential Floor, Hydronic Boiler

Dimensional Data





Description	Size		
Gas Supply	3/4" NPT		
Heating Water Outlet	1-1/2" NPT		
Heating Water Inlet	1-1/2" NPT		
Air Vent	1" NPT		
Air Intake Collar	3"		
Exhaust Vent	3"		
Boiler drain	1/2" NPT		
Condensate Line	1/2" (no NPT)		

