FT SERIES



Hydronic Boiler

LETHE Floor Standing Roller

Date:	Indoor, Sizes 199
Project #:	HeletitiggSystems Company
	Submittal Data
Engineer:	Project Name:
Prepared By:	Location:
Bid Date:	Contractor:

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
- · Cascade up to 20 units
- Receptacle for condensate pump (2A max)
- Supply and return boiler sensors
- · Smart DHW priority

- · Low water cutoff
- 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

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Neutralizer & Pump (fits inside and plugs into boiler cabinet)

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*

*Note that boiler is shipped with two 3" screens

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
LFTHF1	199 199 <i>58</i>	182 53	158 46	95.3	3/4 NPT	1-½ NPT	130 59

NOTES:

1. For other boiler ratings:

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.

Clearances

APPLIANCE SURFACE	SUGGESTED SERVICE INCHES	ACCESS CI	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
LFTHF199	120	Single	4

Minimum 15A circuit required.

Maximum 2A draw allowed on convenience receptacle.

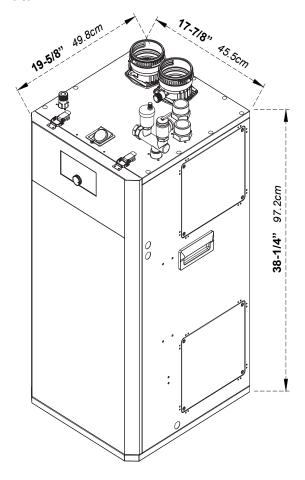
Vent System

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 Hydronic Boiler

Dimensional Data



	16" 40.6cm	
	15-5/8 " 39.8cm	
	12-7/8" 32.7cm	
	9-1/2" 24.0cm	16.4cm
4-3/4 " 12.0cm		i i
1-3/4 " 4.3cm	3-7.89	6-1/2"
		
†		
37.5cm		23.0cm 34.7cm
		• • • • • • • • • • • • • • • • • • • •
./8/.	.	13-5/8"
14-7/8"		
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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)

