Hydron PEXHEAT COM

Combination

Boiler

FT SERIES



Date:	LFTCF	Floor Stan	ding, Combination
	Boiler / Water Heater Indoor, Sizes 199		LAARS®
Project #:			Heating Systems Company
	Subm	ittal Data	a
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 mini boiler tank serves as low loss header and indirect DHW tank
- · Low lead compliant
- 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
- · Low water cutoff
- · Smart DHW priority

- Bonus TT connection for high temp zone
- Accepts 0-10VDC temp setpoint signal
- Connection for DHW recirculation pump
- · 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
- · Inlet DHW 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









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Boiler Data

Number of Units:

Fuel

Natural*

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

Field Installed Accessories

Domestic Water Recirculation Sen

Sizing Data

			AHRI				Heating				
			Certified	Net	AHRI		Supply &				
			Heating	AHRI	Certified	l Gas	Return	DHW	DHW Recirc	Shipp	oing
	Model	Input	Capacity	Rating	AFUE	Conn. Size	Conn. Size	Conn. Size	Conn. Size	Wei	ght
		MBH kW	MBH kW	MBH kW	′ %	inches	inches	inches	inches	lbs	kg
٦	LFTCF199	9 199 58	182 53	158 46	95.3	3/4 NPT	1-1/2 NPT	3/4 NPT	3/4 NPT	143	65

NOTES:

1. For other boiler ratings:

Boiler Horsepower: HP = Output Radiation Surface: EDR sq. ft. = Output

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

Domestic Hot Water Capacity

Model	35°F Rise	45°F Rise	77°F Rise	Stored DHW	
	GPM //m	GPM I/m	GPM I/m	Gallons / liters	
FTCF199	9.9.38	7.7 29	4.8 18	0.5 19	

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&}quot; Vent/Air Pipe Screen*

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

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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		
FTCF199	120	Single	4		

Minimum 15A circuit required.

Maximum 2A draw allowed on convenience receptacle.

Vent System

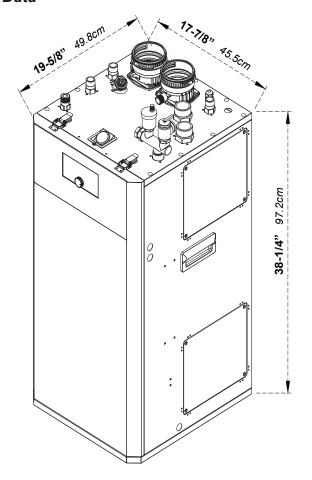
INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)							
	STAN	DARD	2-PIPE	STAND	ARD 2	-PIPE	
SIZE	DIA.	FT.	m	DIA.	FT.	m	
199	2" *	50	15.2	3"	100	30.5	

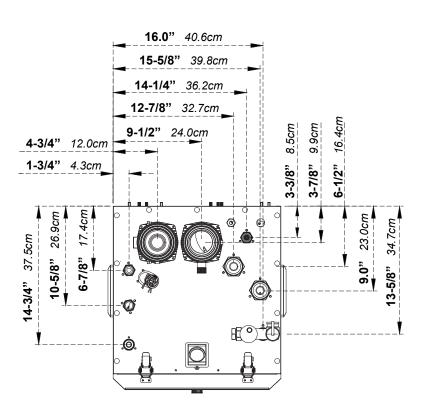
^{*} Must use 3x2 adapter within 1ft (3cm) of boiler. Reference the Installation and Operation Manual for more details.

FT SERIES Floor, Hydronic Combination Boiler

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Dimensional Data





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

