FT SERIES



METHW | Wall Mounted Boiler



	WII TITW Wall Wearted Belief				
Date:	Indoor Sizes 100, 140, 199				
	LAARS'®				
Project #:	Heating Systems Company				
	Submittal Data				
Engineer:	Project Name:				
Prepared By:	Location:				
Bid Date:	Contractor:				

Standard Equipment

- Stainless steel heat exchanger with finned aluminum core fire tubes
- · ASME "H" stamp
- ASME 30 psi (207kPa) working pressure
- 95% AFUE
- Full modulation:
 - 10:1 turndown (140 & 199)
 - 5:1 turndown (100)
- · Boiler pump wired and mounted
- 30 psi (207kPa) ASME pressure relief valve
- · Pressure gauge
- · Sealed combustion chamber
- Pre-mix ceramic fiber burner

- Low NOx system exceeds the most stringent regulations for air quality
- · Horizontal or vertical direct vent
- Vent and air pipe lengths up to 100 equivalent feet (each)
- · Electronic PID modulating control
- · Cascade up to 20 units
- · Large user-interface and display
- Outdoor reset (sensor included)
- 0-10VDC external setpoint connections
- · Manual reset high limit
- Customizable Freeze Protection
- Direct spark ignition
- Low water cutoff

- · Gas leak detection
- · Built-in condensate trap and drain
- · Automatic air vent
- · Boiler water pressure switch
- · Blocked vent pressure switch
- Blocked condensate pressure switch
- · Burner site glass
- · Wall mount bracket
- · Screens for vent and air pipe
- Propane conversion kit
- 10-Year limited heat exchanger warranty
- 5-Year limited parts warranty

Boiler Data

Number of Units:



Field Installed Accessory Kits

Piping Manifold Kit
Neutralizer Kit
Cascade Kit

Horizontal Concentric Vent/Air Termination

2"

3"

Concentric Flush-Mount Vent/Air Termination

2" 3"









Sizing Data

			AHRI C	ertified	Net /	AHRI	AHRI					
	Inp	ut	Heating (Capacity	Rat	ting	Certified		Gas	Water	Shipping	Weight
Model	MBH	kW	MBH	kW	MBH	kW	AFUE	Modulation	Conn Size	Conn Size	lbs	kg
MFTHW100	100	29	93	27	81	24	95.0%	20-100% (5:1)	¾" NPT	1" NPT	98	44
MFTHW140	140	41	129	38	112	33	95.0%	10-10% (10:1)	¾" NPT	1" NPT	102	46
MFTHW199	199	58	181	53	157	46	95.0%	10-10% (10:1)	¾" NPT	1" NPT	118	54

For other boiler ratings:

Boiler Horsepower: HP = Output

Radiation Surface: EDR sq. ft. = Output

75 1

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

Clearances

Appliance Surface	Clearance from Combustibles and Non-combustible Surfaces	Suggested Service Clearance	
TOP	9 in (23 cm)	18 in (46 cm)	
BACK	0 in (0 cm)	0 in (0 cm)	
FRONT	24 in (61 cm)	40 in (101 cm)	
SIDE	3 in (7 cm)	8 in (20 cm)	
воттом	12 in (30 cm)	24 in (61 cm)	

Electrical Data

		Max Power		
Size	Volts	Consumption		
MFTHW (all sizes)	120	Single	4	160W

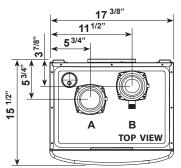
Minimum 15A circuit required

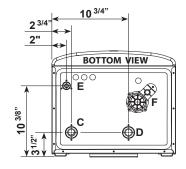
Vent System

INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)							
	STANDARD 2-PIPE			STANDARD 2-PIPE			
SIZES	DIA.	FT.	m	DIA.	FT.	m	
(all sizes)	2"*	50	15.2	3"	100	30.5	

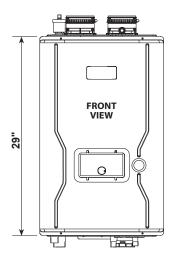
^{*} Must use 3x2 adapter within 1ft (30 cm) of boiler. Reference the Installation and Operation Manual for more details.

Dimensional Data

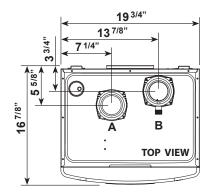


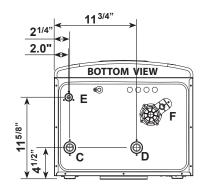


MFTHW 100 / 140

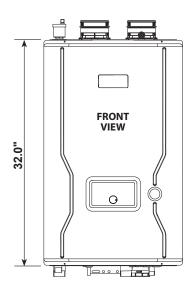


	Description	Diameter
Α	Air Intake Collar	3″
В	Vent Pipe Collar	3″
С	'CH' Supply Adapter	1 1/4"
D	'CH' Return Adapter	1 1/4"
Е	Gas Inlet Adapter	3/4"
F	Condensate Line	1/2″





MFTHW 199



	Description	Diameter
Α	Air Intake Collar	3″
В	Vent Pipe Collar	3″
С	'CH' Supply Adapter	1 1/4"
D	'CH' Return Adapter	1 1/4"
Е	Gas Inlet Adapter	3/4″
F	Condensate Line	1/2″

