FT SERIES



	MFTHW Wall Mounted Boiler
Date:	Indoor Sizes 100, 140, 199
Project #:	Heating Systems Company
	Submittal Data
Engineer:	Project Name:
Prepared By:	Location:
Bid Date:	Contractor:

Hydronic

Boiler

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: Horizontal Concentric **Concentric Flush-Mount** Field Installed Piping Manifold Kit Vent/Air Termination Vent/Air Termination Neutralizer Kit Accessory Kits 2" 2" Cascade Kit 3" 3" AHRI CERTIFIED Ask About Our Certified Pr



Sizing Data

[AHRI C	ertified	Net /	AHRI	AHRI					
		Inp	ut	Heating (Heating Capacity			Certified	Certified		Water	Shipping	y Weight
	Model			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	1¼" NPT	98	44
	MFTHW140	140	41	129	38	112	33	95.0%	10-10% (10:1)	¾" NPT	1¼" NPT	102	46
	MFTHW199	199	58	181	53	157	46	95.0%	10-10% (10:1)	34" NPT	1¼" NPT	118	54

For other boiler ratings:

Boiler Horsepower: HP = <u>Output</u>

Radiation Surface: EDR sq. ft. = <u>Output</u> 150

33,475

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)
BOTTOM	12 in (30 cm)	24 in (61 cm)

Electrical			Max Power		
Data	Size	Volts	Phase	Amps	Consumption
	MFTHW (all sizes)	120	Single	4	160W

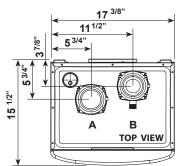
Minimum 15A circuit required

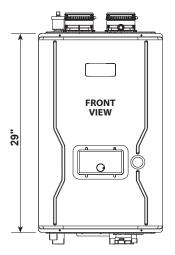
Vent System

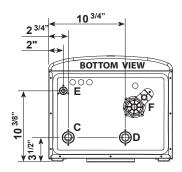
INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)												
	STAN	DARD	2-PIPE	STAND								
SIZES	DIA.	FT.	т	DIA.	FT.	т						
(all sizes)	2" *	50	15.2	3"	100	30.5						

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

Dimensional Data

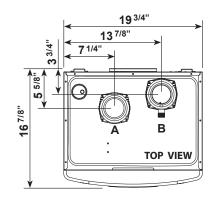


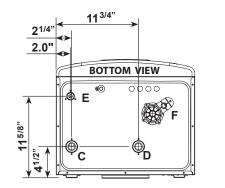




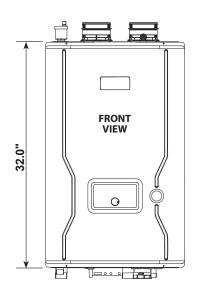
100 / 140

	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″





199



	Description	Diameter
А	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″

No	otes	s:													



Customer Service and Product Support: 800.900.9276 • Fax 800.559.1583 Headquarters: 20 Industrial Way, Rochester, NH, USA, 03867 • 603.335.6300 • Fax 603.335.3355 9 Brigden Gate, Halton Hills, Ontario, Canada L7G 0A3 (905) 203-0600 Fax: (905) 636-0666