Brute FT



	BMFTHW Vall Mounted Boiler
	Indoor, Sizes 100, 140,
Date:	
	BRADFORD WHITE
Project #:	
	Submittal Data
Engineer:	Project Name:
Prepared By:	Location:
Bid Date:	Contractor:

Residential

Hydronic Boiler

Standard Equipment

- High condensing efficiency.
 95% AFUE
- Low pressure drop, fire tube heat exchanger design
- Full modulation 100% down to 20% of full fire (5:1 turndown)
- · Sealed combustion chamber
- Pre-mix ceramic fiber burner
- Low NOx system exceeds the most stringent regulations for air quality – 17ppm NOx
- Horizontal or vertical direct vent
- Vent and air pipe lengths of up to 100 equivalent feet (each)
- Stainless steel heat exchanger with finned aluminum core fire tubes, welded construction
- ASME 30 psi (207kPa) working pressure heat exchanger

- · ASME "H" stamp
- Vent with PVC, CPVC or Polypropolene
- Natural gas or propane
- 30 psi (207kPa) ASME pressure relief valve
- Gas leak detection
- Boiler pump wired and mounted inside jacket
- Built-in condensate trap and drain, priming not required
- Automatic air vent
- Pressure gauge
- · Boiler water pressure switch
- · Blocked vent pressure switch
- Blocked condensate pressure switch
- Burner site glass
- · Electronic PID modulating control

- · Direct spark ignition
- · Pump control with delay
- Freeze Protection
- Anti-short cycling
- · Large user-interface and display
- Accepts external (0-10VDC) temperature setpoint signal
- Outdoor reset (sensor included)
- Outdoor air reset curve
- Manual reset high limit
- Wall mount bracket
- Field convertible between natural gas and propane
- 10-Year limited warranty
- 2-Year parts warranty

Boiler Data

Number of Units:

Fuel
Natural*

Options Low Water Cut-off (shipped loose)

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







Sizing Data

Model	Inpi	ut	Outp	out	AFUE	Gas Conn. Size	Heating Supply & Return Conn. Size	Shipping Weight
	BTU/h kW BTU/h kW		kW		inches	inches	lbs kg	
BMFTHW100	100,000	29	93,000	27	95%	³ /4 NPT	1 ¹ / ₄ NPT	98 44
BMFTHW140	140,000	41	130,200	39	95%	3 _{/4 NPT}	1 ¹ / ₄ NPT	102 46

NOTES:

1. For other boiler ratings:

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

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

Clearances

APPLIANCE	SUGGESTED SERVICE	
SURFACE	INCHES	СМ
Left Side	8	20
Right Side	8	20
Тор	18	46
Back	0	0
Closet, Front	3	8
Front	40	101
Bottom	24	61
Vent	1	3

Electrical Data

Size		Boiler							
	Volts	Phase	Amps						
MFTHW (all sizes)	120	Single	4						

* Minimum 15A circuit required BMFTHW

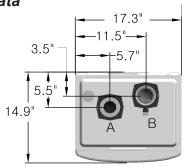
Vent System

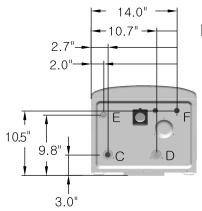
INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)										
	STAN	STANDARD 2-PIPE			STANDARD 2-PIPE					
SIZES	DIA.	FT.	т	DIA.	FT.	т				
(all sizes)	2"*	50**	15.2	3"	100	30.5				

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

**Propane models are limited to 25 equivalent feet of 2" vent.

Dimensional Data





BMFTHW 100 / 140

Diameter 3" 3" 1 1/4"

> 1 1⁄4″ 3/4″ 1/2″

	Description	
А	Air Intake Collar	
В	Vent Pipe Collar	
С	'CH' Supply Adapter	
D	'CH' Return Adapter	
Е	Gas Inlet Adapter	
F	Condensate Line	



Notes:									

Bradford White reserves the right to change specifications, components, features, or to discontinue products without notice.



200 Lafayette St. Middleville, MI 49333