Brute FT



Residential Hydronic Boiler

BMFTHW Vall Mounted Boiler

Indoor,	Sizes	100,	140,	

BRADFORD WHITE
Submittal Data
Project Name:

Location:	
Contractor:	

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 tumdown)
- · 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

Date:

Project #:

Engineer:

Prepared By:

Bid Date:

- 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		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 = Output Radiation Surface: EDR sq. ft. = Output 33,475

Clearances

APPLIANCE	SUGGESTED SERVICE	ACCESS CLEARANCE
SURFACE	INCHES	CM
Left Side	8	20
2011 0100		
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

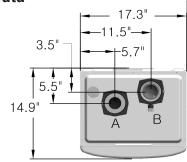
Vent System

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

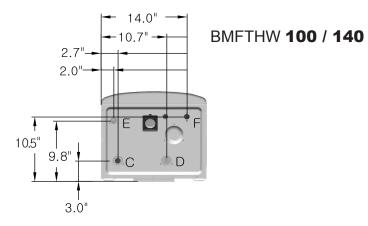
^{*} Must use 3x2 adaptor within 1ft (3cm) of boiler. Reference the Installation and Operation Manual for more details.

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

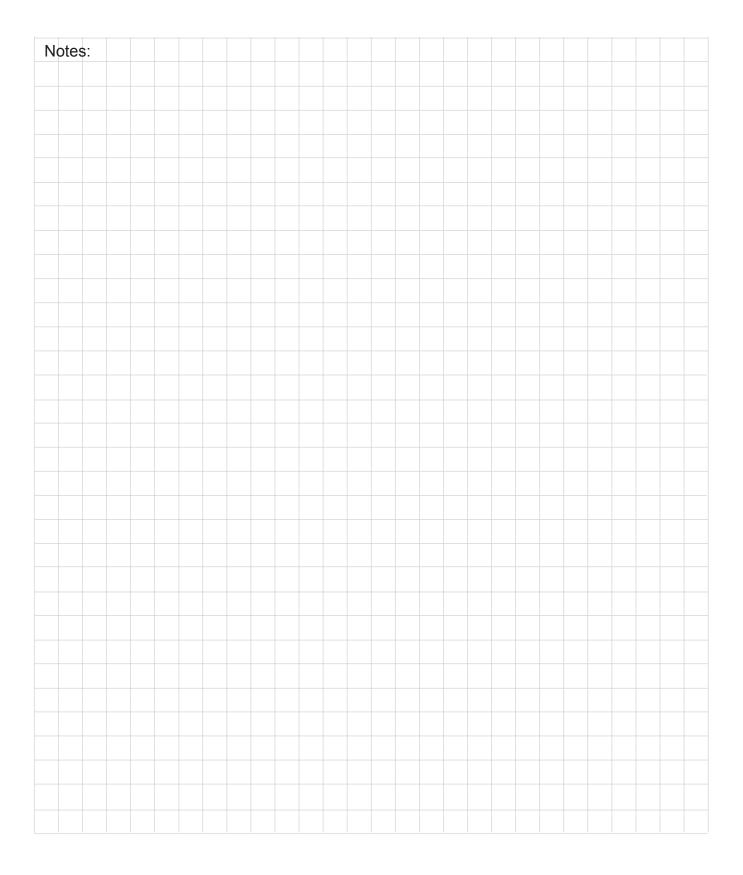
Dimensional Data







	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″		



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

