Brute FT



Residential Hydronic Boiler

BMFTHW Wall Mounted Boiler

Indoor, Sizes 080, 100, 140, 199



Submittal Data

Submittai Data
Project Name:
Location:
Contractor:

Standard Equipment

- High condensing efficiency.
 95% AFUE
- Low pressure drop, fire tube heat exchanger design
- Full modulation
 80 -140MBH: 100% down to 20% of full fire (5:1 tumdown)
- •199MBH: 100% down to 10% of full fire(10:1 turndown)
- · Cascadable up to 20 units
- · 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
- Automatic low water cut-off (LWCO)
- 10-Year limited warranty
- 5-Year parts warranty

Boiler Data

Number of Units:

Fuel

Natural*

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









Sizing Data

Model		Inpi	ut	Output		AFUE	Gas Conn. Size	Heating Supply & Return Conn. Size	Shipping Weight
		BTU/h	kW	BTU/h	kW		inches	inches	lbs kg
BMFTHW	080	80,000	23	74,400	22	95%	3/4 NPT	1 ¹ / ₄ NPT	98 44
BMFTHW	100	100,000	29	93,000	27	95%	3/4 NPT	1 ¹ / ₄ NPT	98 44
BMFTHW	140	140,000	41	130,200	39	95%	3/4 NPT	1 ¹ / ₄ NPT	102 46
BMFTHW	199	199,000	58	189,050	55	95%	3/4 NPT	1 ¹ / ₄ NPT	118 <i>54</i>

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		ARANCE
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 Am		Amps		
BMFTHW (all sizes)	120	Single	4		

^{*} Minimum 15A circuit required

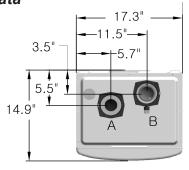
Vent System

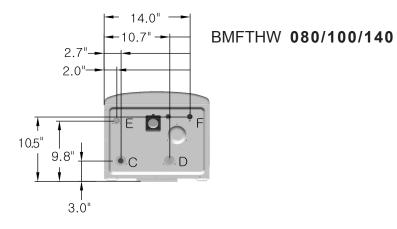
INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)							
	STANDARD 2-PIPE		STANDARD 2-PIPE				
SIZES	DIA.	FT.	m	DIA.	FT.	m	
(all sizes)	2" *	50**	15.2	3"	100	30.5	

^{*} Must use 3x2 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.

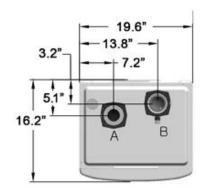
Dimensional Data

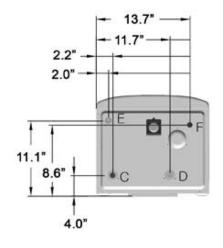




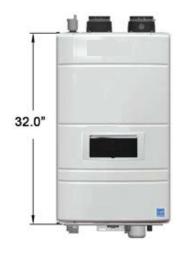
	and the second s
29.0"	
<u> </u>	

	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"

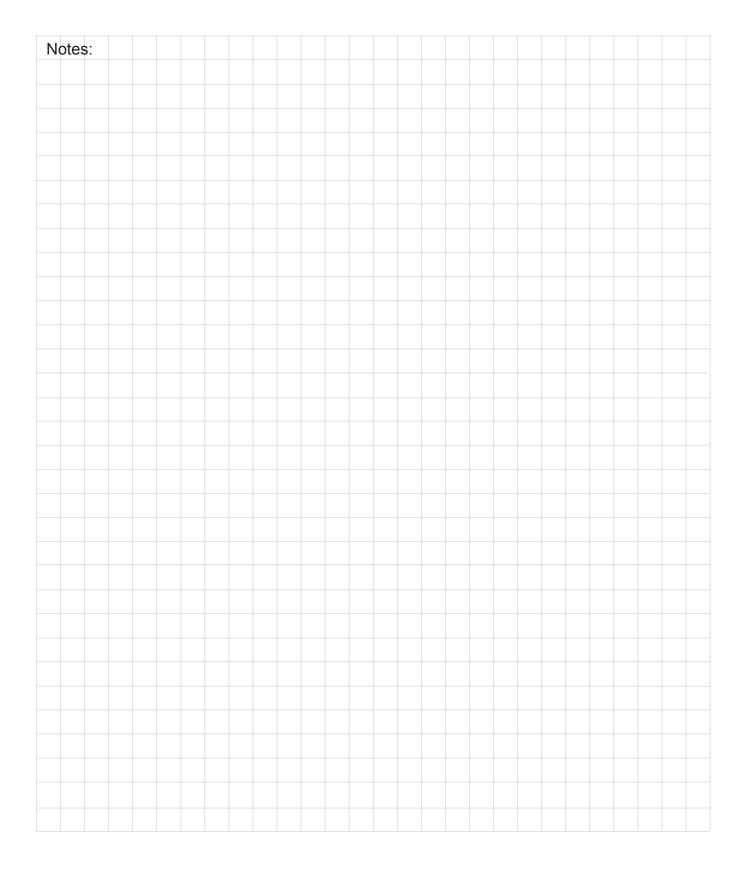




BMFTHW 199



	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″



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

