Brute FT

Residential Hydronic Combination Boiler

BMFTCW	Wall Mounted Combination

Boiler / Water Heater

Indoor, Sizes 140

BRADFORD WHITE

Submittal Data

Date:

Project #:

Engineer:

Prepared By:

Bid Date:

Project Name:

Location:

Contractor:

Standard Equipment

- High condensing efficiency 95% AFUE
- Low pressure drop, fire tube heat exchanger design
- Full modulation
  •140MBH: 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
- Inlet DHW filter
- Vent with PVC, CPVC or Polypropolene
- Natural gas or propane
- 30 psi (207kPa) ASME pressure relief valve
- Low lead compliant
- Gas leak detection
- Stainless Steel DHW indirect tank storage heat exchanger with priority for on-demand hot water
- 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
- Customizable 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
- 5-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.

Intertek

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Sizing Data

Model	Input		Output		AFUE	Gas Conn. Size	Heating Supply & Return Conn. Size	DHW Conn. Size	Shipping Weight
	BTU/h	*kW*	**BTU/h**	*kW*		inches	inches	inches	**lbs** *kg*
BMFTCW 140	**140,000**	*41*	**133,000**	*39*	95%	3/4 NPT	1 NPT	3/4 NPT	**111** *50*

NOTES:

1. For other boiler ratings:

Boiler Horsepower: HP = $\frac{\text{Output}}{33{,}475}$ Radiation Surface: EDR sq. ft. = $\frac{\text{Output}}{150}$

Domestic Hot Water Capacity

Model	35°F Rise		45°F Rise		77°F Rise		Stored DHW	
	GPM	*l/m*	**GPM**	*l/m*	**GPM**	*l/m*	**Gallons** / *liters*	
BMFTCW 140	**7.1**	*27*	**5.5**	*21*	**3.2**	*12*	**0.33**	*1.25*

Clearances

APPLIANCE SURFACE	SUGGESTED SERVICE ACCESS CLEARANCE **INCHES**	*CM*
Left Side	**8**	*20*
Right Side	**8**	*20*
Top	**18**	*46*
Back	**5/8**	*1.5*
Closet, Front	**3**	*8*
Front	**40**	*101*
Bottom	**24**	*61*
Vent	**1**	*3*

Electrical Data

	Boiler		
Sizes	Volts	Phase	Amps
140	120	Single	4

***** Minimum 15A circuit required

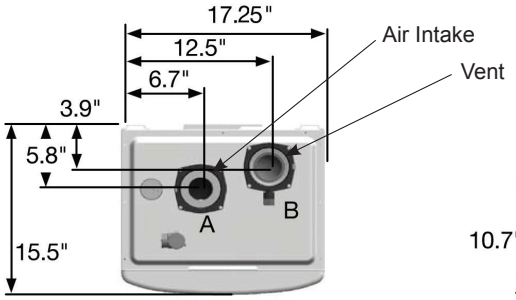
Vent System

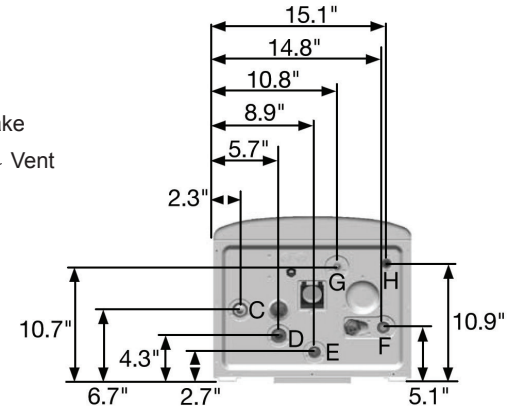
INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)						
	STANDARD 2-PIPE			STANDARD 2-PIPE		
SIZES	DIA.	**FT.**	*m*	DIA.	**FT.**	*m*
140	2"*****	**50****	*15.2*	3"	**100**	*30.5*

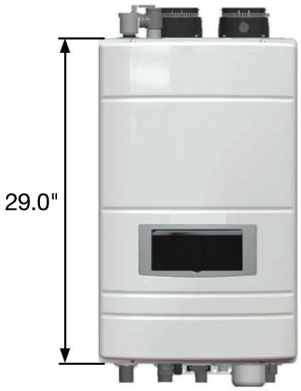
***** Must use 3x2 adaptor within 1ft (3cm) of boiler. Reference the Installation and Operation Manual for more details.

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

Dimensional Data BMFTCW **140**







	Description	Diameter
A	Air Intake collar	3"
B	Vent Pipe Collar	3"
C	'CH' Supply	1" NPT
D	'CH' Return	1" NPT
E	'DHW' Outlet	3/4" NPT
F	'DHW' Inlet	3/4" NPT
G	Gas Inlet	3/4" NPT
H	Condensate Line	1/2" NPT

Notes:

BRADFORD WHITE®

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Warranty: (800) 531-2111

www.BradfordWhite.com

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