Brute FT



	Complication Buller
Date:	BMFTCW Wall Mounted Combination
	Boiler / Water Heater Indoor, Sizes 140
Project #:	BRADFORD WHITE Submittal Data
Engineer:	Project Name:
Prepared By:	Location:
Bid Date:	Contractor:

Residential

Hydronic

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.







Sizing Data							0	Heating Supply &	DUW	Chinging
	Model	Input		Outp	out	AFUE	Gas Conn. Size	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 boild Boiler Horsep		: <u>Output</u> 33,475		Surface	e: EDR sq.	ft. = <u>Output</u> 150			

Domestic Hot Water Capacity	Model	35°F Rise GPM //m	45°F Rise GPM //m	77°F Rise GPM <i>I/m</i>	Stored DHW Gallons / liters
	BMFTCW 140	7.1 27	5.5 21	3.2 12	0.33 1.25

Clearances	APPLIANCE SURFACE	SUGGESTED SERVICE / INCHES	ACCESS CLEARANCE
	Left Side	8	20
	Right Side	8	20
	Тор	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

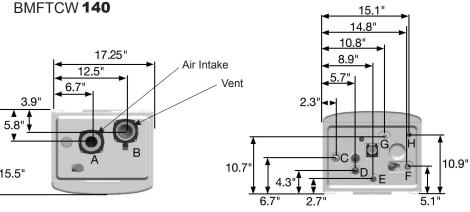
Vent System

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

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

15.5"





Description	Diameter
Air Intake collar	3"
Vent Pipe Collar	3"
'CH' Supply	1" NPT
'CH' Return	1" NPT
'DHW' Outlet	3/4" NPT
'DHW' Inlet	3/4" NPT
Gas Inlet	3/4" NPT
Condensate Line	1/2" NPT
	Air Intake collar Vent Pipe Collar 'CH' Supply 'CH' Return 'DHW' Outlet 'DHW' Inlet Gas Inlet

N	otes	S:													



200 Lafayette St. Middleville, MI 49333 Warranty: (800) 531-2111