Brute FT



Date:	BMFTCW Wall Mounted Combination
	Boiler / Water Heater Indoor Size 199
Project #:	BRADFORD WHITE Submittal Data
Engineer:	Project Name:
Prepared By:	Location:
Bid Date:	Contractor:

Residential

Combination Boiler

Hydronic

Standard **Equipment**

- Stainless steel heat exchanger with finned aluminum core fire tubes
- · ASME "H" stamp
- ASME 30 psi (207kPa) working pressure
- 95% AFUE
- Full modulation with 10:1 turndown ratio (10-100% of full fire)
- · Stainless Steel indirect DHW tank
- · DHW priority
- Inlet DHW filter
- · Boiler pump wired and mounted
- 30 psi (207kPa) ASME pressure relief valve

- · Pressure gauge
- · Sealed combustion chamber
- · Pre-mix ceramic fiber burner
- · Low NOx system exceeds the most stringent regulations for air
- · Horizontal or vertical direct vent
- Vent and air pipe lengths up to 100 equivalent feet (each)
- · Electronic PID modulating control
- · Large user-interface and display
- · Outdoor reset (sensor included)
- · 0-10VDC external setpoint connections
- · Manual reset high limit
- · Customizable Freeze Protection

- · Direct spark ignition
- · Gas leak detection
- Built-in condensate trap and drain
- Automatic air vent
- · Boiler water pressure switch
- · Blocked vent pressure switch
- · Blocked condensate pressure switch
- Burner site glass
- Wall mount bracket
- · Screens for vent and air pipe
- Propane conversion kit
- 10-Year limited heat exchanger warranty
- · 5-Year limited parts warranty

Boiler Data

Number of Units:



Field Installed **Accessory Kits** Neutralizer Kit

Piping Manifold Kit

Horizontal Concentric Vent/Air Termination

2"

3"

Concentric Flush-Mount Vent/Air Termination

2"

3"







Sizing Data

_			AHRI (Certified F	Ratings							
	Inp	ut	Heating (Capacity	Net F	Rating	Certified	Gas	Heating	DHW	Shipping	Weight
Model	MBH	kW	MBH	kW	MBH	kW	AFUE	Conn Size	Conn Size	Conn Size	lbs	kg
BMFTCW199	199	58	181	53	157	46	95.0%	¾" NPT	1" NPT	3/4" NPT	130	59

NOTES:

For other boiler ratings:

33,475

Boiler Horsepower: HP = <u>Output</u> Radiation Surface: EDR sq. ft. = <u>Output</u>

Domestic Hot Water Capacity

Model	35°F Rise	45°F Rise	77°F Rise	Stored DHW
	GPM I/m	GPM I/m	GPM I/m	Gallons / liters
BMFTCW199	9.8 37	7.7 29	4.8 18	0.5 1.9

Clearances

Appliance Surface	Clearance from Combustibles and Non-combustible Surfaces	Suggested Service Clearance		
TOP	9 in (23 cm)	18 in (46 cm)		
BACK	0 in (0 cm)	0 in (0 cm)		
FRONT	24 in (61 cm)	40 in (101 cm)		
SIDE	3 in (7 cm)	8 in (20 cm)		
BOTTOM	12 in (30 cm)	24 in (61 cm)		

Electrical Data

		Max Power		
Size	Volts	Phase	Amps	Consumption
199	120	Single	4	160W

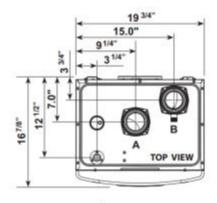
Minimum 15A circuit required

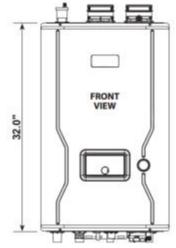
Vent System

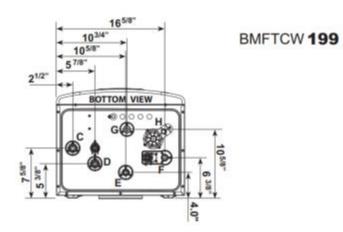
INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)							
	STANDARD 2-PIPE STANDA				ARD 2-	PIPE	
SIZES	DIA.	FT.	m	DIA.	FT.	m	
(all sizes)	2" *	50	15.2	3"	100	30.5	

^{*} Must use 3x2 adapter within 1ft (30 cm) of boiler. Reference the Installation and Operation Manual for more details.

Dimensional Data







	Description	Diameter
A	Air Intake collar	3*
В	Vent Pipe Collar	3*
0	'CH' Supply	1" NPT
0	'CH' Return	1" NPT
Ē	'DHW' Outlet	3/4" NPT
F	'DHW' Inlet	3/4" NPT
3	Gas Inlet	3/4" NPT
н	Condensate Line	1/2" NPT

