

FIRE TUBE TECHNOLOGY

# **BRUTE FT**<sup>®</sup>

Floor Standing Combination  
Boiler & Water Heater



95% Efficient (AFUE)

10:1 Modulation

Environmentally Friendly  
Low NOx Emissions

Integrated Indirect Tank for  
Superior DHW Performance

Vent up to 100 ft. in PVC,  
CPVC & Polypropylene

Field Convertible to LP -  
Easily!

ENERGY STAR<sup>®</sup> Rated

**BRADFORD WHITE**<sup>®</sup>  
WATER HEATERS

**Built to be the Best**<sup>™</sup>

# High Efficiency Fire Tube Combi Boiler



The **Brute FT**® is a combination (“Combi” - heating and domestic hot water) floor standing boiler packed with features. It easily satisfies the heating and hot water needs of the modern home.

Powering the Brute FT® is an advanced fire tube heat exchanger that uses the latest in heating tube technology.

## Advanced Straightforward Controls

Every Brute FT® is equipped with the Advanced Integrated Control System

- Easy-to-use dial and push button input system with large backlit display
- Functions are clearly displayed for quick set-up and diagnostics
- Quick access buttons for temperature control and boiler status functions
- Outdoor reset feature for fuel savings

## Saves You Money

Greatly reduces heating bills when compared to older, mid-efficient boilers - up to 20%.

- 95% efficiency (AFUE) equals lower fuel use
- Outdoor reset technology balances your home’s heating needs with the outside temperature
- Brute FT® modulates to a lower firing rate during cool days to reduce fuel use even further
- ENERGY STAR® Qualified and Rebate Eligible.



## Enough Hot Water for Everyone

The Bradford White Brute FT® uses a condensing heat exchanger and integrated indirect tank design that combines the best of space and domestic water heating into one compact system. The indirect tank is kept charged with three gallons of hot water, always on standby to ensure that you have ample hot water available as fast as possible.

When the stored hot water begins to be used by your faucet, shower, etc., the boiler fires and immediately begins to produce more hot water.

The indirect tank makes sure you have an abundance of hot water quickly and the boiler makes sure you never run out of hot water for as long as you need it!

The best of both worlds! Hot water fast and an endless supply – never run out again.



**Built to be the Best™**

# Reliable & Innovative Design

## Automatic Air Elimination Valve

## Clean Burning Burner

Uses fuel efficiently and produces ultra low NOx and CO emissions.

## Brute FT® Integrated Control

- Outdoor Reset
- Conformal coating encapsulates control board protecting it from moisture
- Dual stage anti-freezing mechanism
- Built-in gas leak detection (alarm will activate and the unit will shut down if a leak is detected)

## Condensate Trap

## Central Heat Circulator Domestic Water Circulator

Separate, dedicated circulators optimize high performance and reliability.

## High Performance Blower

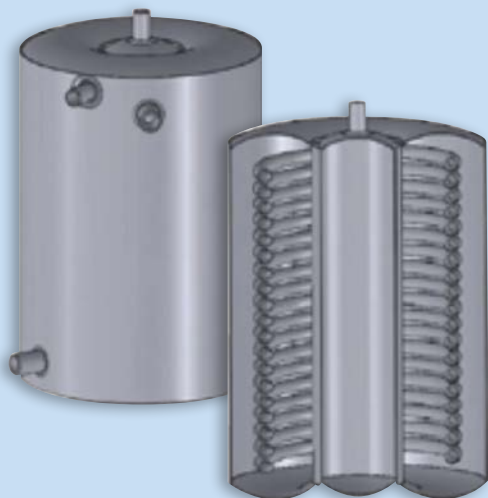
Allows for a quiet, clean combustion and a wide range of venting options.

## Modulating Gas Valve

Field convertible to LP.

## Advanced Fire Tube Heat Exchanger

Provides maximum efficiency and excellent heat transfer.



## Domestic Hot Water Heat Exchanger

By combining both storage and recovery capacity, the Brute FT® Domestic Hot Water heat exchanger bridges the comfort gap between instantaneous and tank-type water heating equipment.

- Provides immediate response to demand
- Hot boiler water inside the tank provides immediate recovery
- Heated in a coiled, corrugated stainless tube contained in a heavily-insulated stainless tank
- Inside the tank, 158°F boiler water surrounds the domestic hot water coil
- Contains approximately three gallons of storage

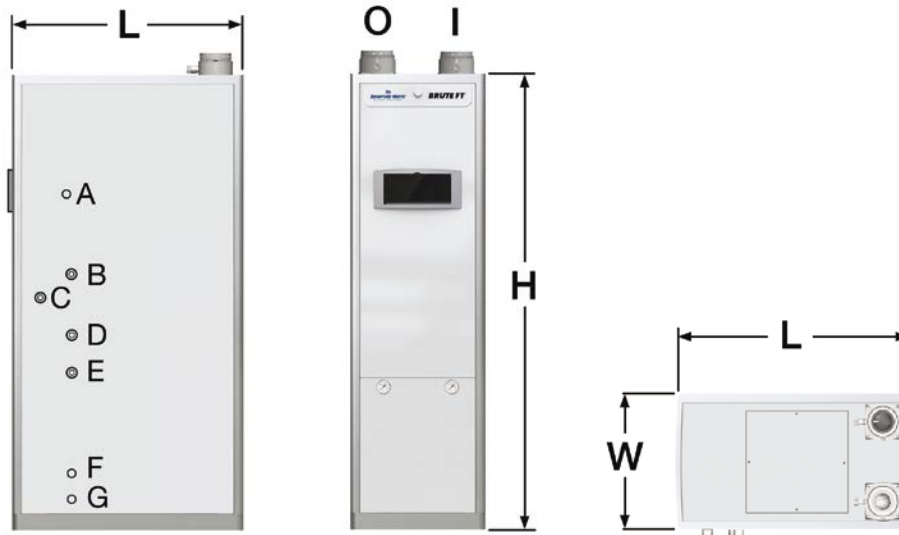
## Brute FT<sup>®</sup> Specifications

SPECIFICATION	UNITS / CONDITION	BMFTCF199
Input, Max Fire	MBH (kW)	199 (58)
Output, Max Fire	MBH (kW)	189 (55)
Turndown	—	10:1
Efficiency / Energy Factor	AFUE	95%
Fuel	—	Natural Gas or Propane
DHW Flow Rate	35°F Temp Rise – GPM (l/m)	9.9 (38)
	45°F Temp Rise – GPM (l/m)	7.7 (29)
	77°F Temp Rise – GPM (l/m)	4.8 (18)
Minimum Flow Rate	GPM (l/m)	0.5 (1.9)
Gas Supply Pressure	(In WC)	Natural Gas - Min 3.5 / Max 10.5 Propane - Min 8.0 / Max 13.0
Pressure Relief Settings	psi (kPa)	30 (207)
Vent Diameter / Eq Length*	lbs. / ft	2" / 50"* 3" / 100'
Vent Material	—	PVC, CPVC, Polypropylene
Power Supply	Volts / Hertz	120 / 60
Weight Unit	lbs. (kg)	180 (82)
Weight Shipping (Est.)	lbs. (kg)	242 (91)
Dimensions (W x H x L)	inches	15.7 x 53.7 x 26.7
Warranty	—	Limited 10 Year Warranty

\*Propane models vent limited to 25 equivalent feet in length.

Item	Description	Diameter
A	Gas Inlet Connection (NPT) 199 MBH	3/4"
B	Space Heating 'CH' Supply (NPT)	1"
C	Space Heating 'CH' Return (NPT)	1"
D	DHW Outlet (NPT)	3/4"
E	DHW Inlet (NPT)	3/4"
F	Condensate Line (NPT)	1/2"
G	Drain Line (NPT)	1/2"
I	Air Intake Collar	3"
O	Exhaust Outlet Pipe Collar	3"

	BMFTCF199
H	53.7" (134 cm)
L	26.7" (68 cm)
W	15.7" (40 cm)



  
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For field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1612

Technical Support 800-334-3393 • Email techserv@bradfordwhite.com

Warranty 800-531-2111 • Email warranty@bradfordwhite.com

International: Telephone 1-215-641-9400 • Email international@bradfordwhite.com / www.bradfordwhite.com



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