

BRADFORD WHITE

BRUTE[®] MINI



Gas-Fired Residential Hydronic Boiler

Exceptional Residential Heating
and Hot Water to Meet the
Demands of any Household


BRADFORD WHITE[®]
WATER HEATERS
Built to be the Best[®]

The Brute® Mini

The Perfect Balance of Technology, Efficiency, and Value.

The Brute® Mini is a reliable gas-fired residential boiler with plenty of capacity to keep even the largest home comfortable on the coldest days. The compact boiler has an efficient low-mass heat exchanger and a super-quick heating response to deliver years of warmth and comfort to your home.



- **Reliable Heating with a 20 Year Warranty**

Field proven long-life heat exchanger design offers dependable performance, year after year

- **Energy Saving “Economy Mode” Built-In**

Economy mode optimizes fuel use and reduces energy bills over time by tracking a home’s heat use pattern and adjusting boiler water temperature, up or down, as needed

- **Environmentally Friendly**

Reduced fuel use and lower emission levels as compared to older, low efficient boilers

- **Easy to Install and Maintain**

New or retrofit, the Brute® Mini meets the need with an impressive array of built in features and reliable field proven components

- **Long Life Hybrid Heat Exchanger**

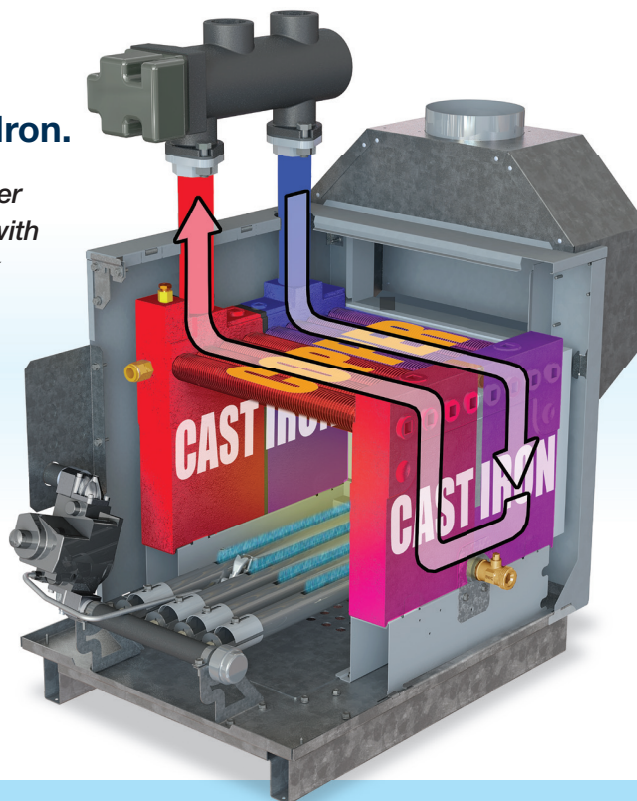
The right combination of copper and cast-iron construction results in a light weight, responsive, and long lasting heat exchanger

- **Designed and Built in the USA**

Combined Benefits of Copper and Cast Iron.

The Brute® Mini has a unique, field-proven heat exchanger design that intelligently combines finned copper tubing with cast iron “wet walls” to create a perfect balance of quick heat transfer and stored heat:

- Copper transfers heat up to 7 times faster than cast iron for a faster heating response
- Cast iron wet walls store excess heat to minimize short cycling - increasing efficiency and heat exchanger life
- The Brute® Mini is smaller & lighter than traditional cast iron boilers making installation and maintenance much easier



Flexible Installation that meets the needs of the modern home.



The redesigned Brute® Mini's small size provides big advantages for installers. Its compact footprint and light weight help make the Brute® Mini easier to transport and maneuver.

- Great for new or replacement jobs
- Easy to install and maintain
- Standard tapping locations make this a simple retrofit for most existing installations
- Compact footprint and light weight (Often times reduces the install from a two person to a one person job)
- Category I Chimney Vent (Includes vent damper, and integral draft diverter)
- Optional power venter for side wall venting
- Non-combustible base



The Brute® Mini Low Loss Header System.

Maintains the correct temperature rise (Delta-T) across the heat exchanger - offering improved performance and longer heat exchanger life.

- Protects the heat exchanger from low return water temperatures
- Allows for direct replacement of traditionally piped cast iron boilers
- Low loss header comes standard on 125, 150, and 200 MBH models
- Optional on 50, 75 and 100 MBH models



The Brute® Mini Control Advantage.

- Integral low water cut off, manual or automatic reset mode
- Digital temperature display
- Contacts to control three pumps (boiler, system, DHW)
- Economy modes auto adjusts water temperatures to reduce fuel use
- Outdoor reset capability
- Spark to pilot ignition
- Low voltage terminal block for ease of installation and wiring
- Domestic hot water priority for indirect water heater installations
- Powered relay contacts for external devices (power venter, louvers, fans, etc.)



The Brute® Mini

Sizing Data

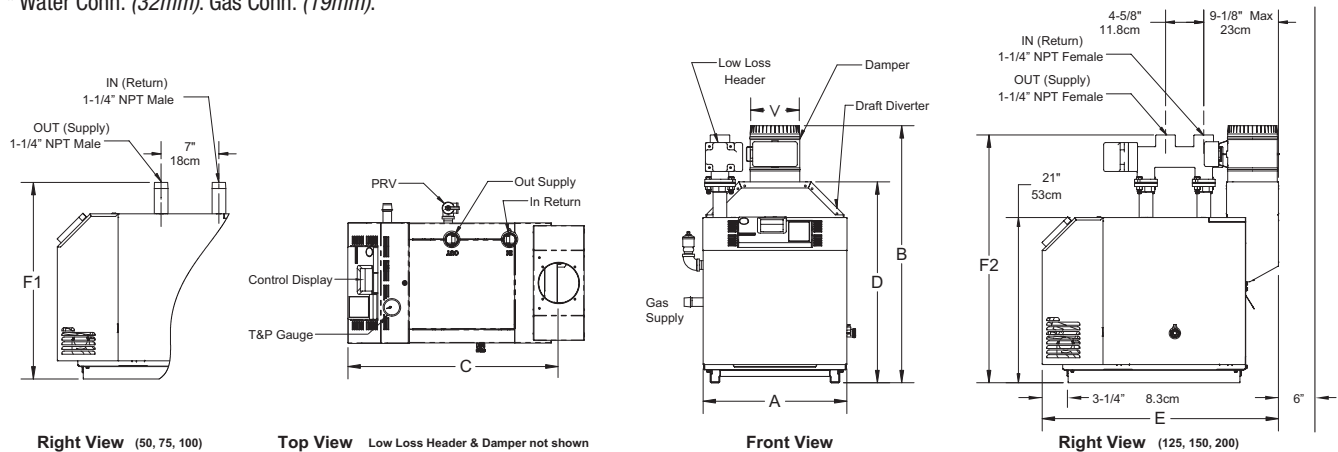


Size	Input		Heating Capacity Nat Gas		AFUE %	Water Conn.		Gas Conn.	
	MBTU/h	kW	MBTU/h	kW		in.	mm.	in.	mm.
50	50	14.7	42	12.6	84	1 ¹ / ₄	32	3/4	19
75	75	22.0	63	18.8	84	1 ¹ / ₄	32	3/4	19
100	100	29.3	84	24.9	84	1 ¹ / ₄	32	3/4	19
125	125	36.6	105	31.1	84	1 ¹ / ₄	32	3/4	19
150	150	44.0	126	37.2	84	1 ¹ / ₄	32	3/4	19
200	199	58.3	168	49.2	84	1 ¹ / ₄	32	3/4	19

Dimensional Data

Size	A		B		C		D		E		F1		F2		V		Water Conn.*	Gas Conn.*
	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	in.
50	11 ³ / ₄	30	31 ⁵ / ₈	80	25 ¹ / ₈	64	24 ³ / ₄	63	27 ⁵ / ₈	70	24 ⁷ / ₈	63	-	-	4	10	1 ¹ / ₄	3/4
75	14 ¹ / ₂	37	31 ⁵ / ₈	80	25 ⁵ / ₈	65	24 ³ / ₄	63	28 ⁵ / ₈	73	24 ⁷ / ₈	63	-	-	5	13	1 ¹ / ₄	3/4
100	17 ³ / ₈	45	32 ¹ / ₈	82	25 ¹ / ₂	65	25 ³ / ₈	65	28 ⁵ / ₈	73	24 ⁷ / ₈	63	-	-	5	13	1 ¹ / ₄	3/4
125	20 ¹ / ₈	52	32 ¹ / ₈	82	25	64	25 ³ / ₈	65	28 ⁵ / ₈	73	-	-	31	79	6	15	1 ¹ / ₄	3/4
150	23	59	32 ¹ / ₈	82	25	64	25 ³ / ₈	65	28 ⁵ / ₈	73	-	-	31	79	6	15	1 ¹ / ₄	3/4
200	28 ³ / ₈	73	32 ¹ / ₄	82	24 ⁵ / ₈	63	26 ¹ / ₄	67	28 ⁵ / ₈	73	-	-	31	79	7	18	1 ¹ / ₄	3/4

* Water Conn. (32mm). Gas Conn. (19mm).



ACCESSORIES

Low Loss Header with Integral Pump (50-100) P/N: CA019600	Propane Conversion Kit See IOM for part number	High Altitude Conversion Kit See IOM for part number	DHW Pump Relay Kit P/N: CA019400	Power Vent Kit* PN: CA019501 (50-100) P/N: CA019502 (125 - 200)	Outdoor Air Sensor P/N: CA005400

* Includes: Power venter, through wall vent terminal, and necessary reducers.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



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