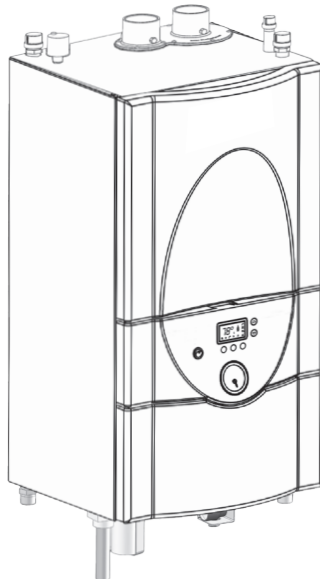


Brute LX



Residential Hydronic Boiler

Indoors, Models BLXH 50, 75, 100, 125, 150, 175, and 220



Submittal Data

Date:

Project #:

Engineer:

Project Name:

Prepared By:

Location:

Bid Date:

Contractor:

Standard Equipment

- High condensing efficiency
- Modulation down to 20% of full fire (5:1 turndown)
- Sealed combustion chamber
- Pre-mix stainless steel burner
- Low NOx system exceeds the most stringent regulations for air quality – 10ppm NOx
- Horizontal or vertical direct vent
- Vent and air pipe lengths of up to 150 equivalent feet (each)
- Horizontal vent and air terminals
- Stainless steel heat exchanger with welded construction
- ASME 30 psi (207kPa) working pressure heat exchanger
- ASME "H" stamp
- 30 psi (207kPa) ASME pressure relief valve
- Auto cascade setup
- Boiler pump wired and mounted inside jacket
- Built-in condensate trap and drain, priming not required
- Automatic air vent
- Temperature and pressure gauge
- Boiler water pressure switch
- Blocked vent pressure switch
- Blocked condensate pressure switch
- Burner site glass
- Electronic PID modulating control
- Direct spark ignition
- Multiple pump control for boiler pump and system pump, each with delay
- Domestic Hot Water Pump Output
- Customizable Freeze Protection
- Anti-short cycling
- Large user-interface and display
- Alarm output
- Accepts external (4-20mA or 0-10VDC) modulation signal
- Outdoor reset (sensor included)
- Outdoor air reset curve
- Vent temp auto turn-down before lockout
- Manual reset high limit
- Lighted on/off toggle switch
- Wall mount bracket
- Field convertible between natural gas and propane
- Zero clearance to combustible surfaces
- 15-Year limited warranty
- 2-Year parts warranty

Boiler Data

Number of Units:

Fuel

- ☐ Natural
☐ Propane

Options

- ☐ Low Water Cut-off



Accessories for Field Mounting

☐ Horizontal concentric vent kit	☐ Concentric elbow, 90°	☐ Concentric flush-mount 2" terminal
☐ Concentric vent adapter	☐ Wall plate for concentric pipe	☐ Concentric flush-mount 3" terminal
☐ Concentric pipe, 12" long	☐ Horizontal concentric sstl terminal	☐ BACnet gateway
☐ Concentric pipe, 24" long	☐ Horizontal concentric 2" PVC terminal	☐ LON gateway
☐ Concentric pipe, 36" long	☐ Horizontal concentric 3" PVC terminal	
☐ Concentric pipe, 13"-18" telescoping		

Sizing Data

Model	Input		Output		Gas	Water	Boiler	
	BTU/h	kW	BTU/h	kW	Conn. Size inches	Conn. Size inches	Shipping Weight lbs	kg
☐ BLXH 50	50,000	14.6	47,500	13.2	1/2" NPT	3/4" NPT	88	40
☐ BLXH 75	75,000	21.9	71,250	20.8	1/2" NPT	3/4" NPT	97	44
☐ BLXH 100	100,000	29.3	95,000	27.8	1/2" NPT	3/4" NPT	112	51
☐ BLXH 125	125,000	36.6	118,750	34.8	1/2" NPT	3/4" NPT	126	57
☐ BLXH 150	150,000	43.9	142,500	41.8	1/2" NPT	1" NPT	140	64
☐ BLXH 175	175,000	51.6	166,250	48.7	1/2" NPT	1" NPT	153	69
☐ BLXH 220	220,000	64.4	209,000	61.2	1/2" NPT	1" NPT	161	73

NOTES:

1. For other boiler ratings:

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

Electrical Data

Size	Boiler		
	Volts	Phase	Amps
BLXH 50	120	Single	1.5
BLXH 75	120	Single	1.5
BLXH 100	120	Single	1.5
BLXH 125	120	Single	1.5
BLXH 150	120	Single	1.5
BLXH 175	120	Single	2.2
BLXH 220	120	Single	2.2

* Minimum 15A circuit required

Vent System

INTAKE / EXHAUST Max Equivalent Vent and Air Pipe Length (each)									
SIZES	STANDARD 2-PIPE			STANDARD 2-PIPE			OPTIONAL CONCENTRIC		
	DIA.	FT.	m	DIA.	FT.	m	DIA.	FT.	m
50 - 175	2"	40	12.2	3"*	150	45.7	3/5"	40	12.2
220	2"	30	9.1	3"*	120	36.6	3/5"	40	12.2

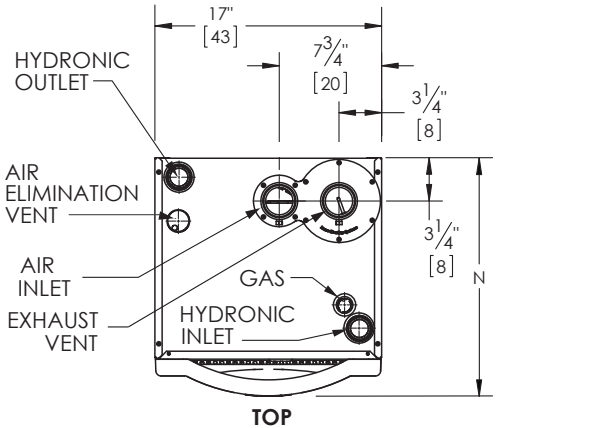
* Must use 2x3 adapter within 1 ft. (30cm) of boiler.

Reference the Installation and Operation Manual for more details.

Dimensional Data

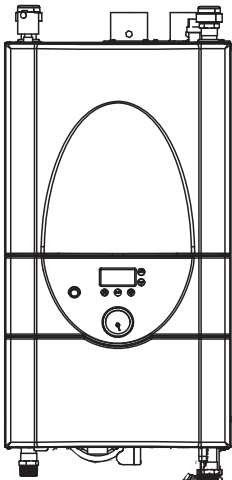
Model	Dimension							
	A	B	C	D	E	F	G	H
50, 75 MBH	1" (3)	15-3/4" (40)	3-3/4" (9)	9-1/4" (24)	8" (20)	1-1/2" (4)	5-3/4" (14)	15-1/2" (39)
100, 125 MBH	1" (3)	15-1/2" (39)	1-1/4" (3)	12-3/4" (33)	11" (28)	1-1/4" (3)	9-1/2" (24)	14-3/4" (37)
150, 175 MBH	1-1/2" (4)	15-1/4" (39)	1-3/4" (4)	13" (33)	11-1/4" (28)	2-3/4" (7)	5-1/4" (14)	2" (5)
220 MBH	1-1/2" (4)	15-1/4" (39)	1-3/4" (4)	13" (33)	11-1/4" (28)	2-3/4" (7)	5-1/4" (14)	2" (5)

inches (cm)

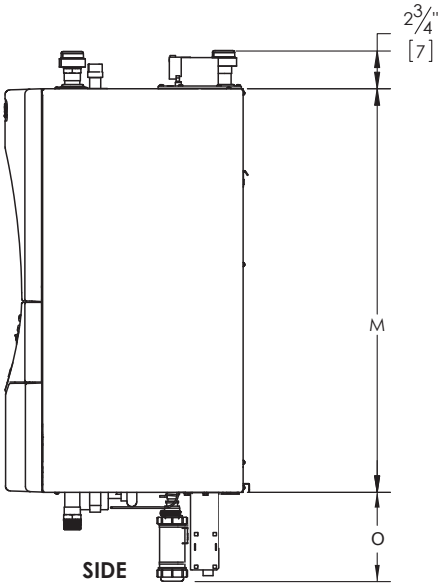


Model	M	N	O
50, 75 MBH	30-1/2" (78)	15-1/4" (39)	4-5/8" (12)
100, 125 MBH	30-1/2" (78)	18" (46)	4-5/8" (12)
150, 175 MBH	35-1/2" (90)	18" (46)	8-7/8" (23)
220 MBH	38-1/2" (90)	18" (46)	8-7/8" (23)

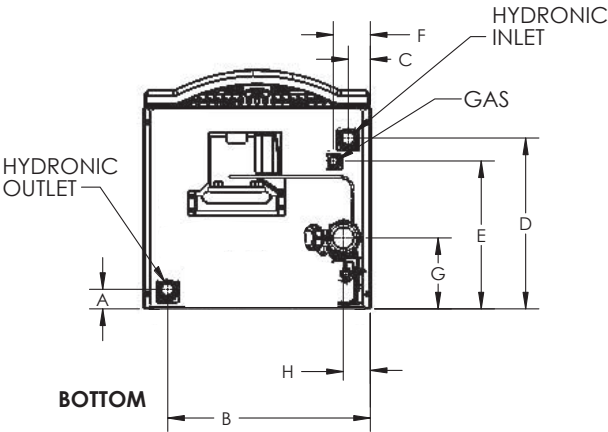
inches (cm)



FRONT



SIDE

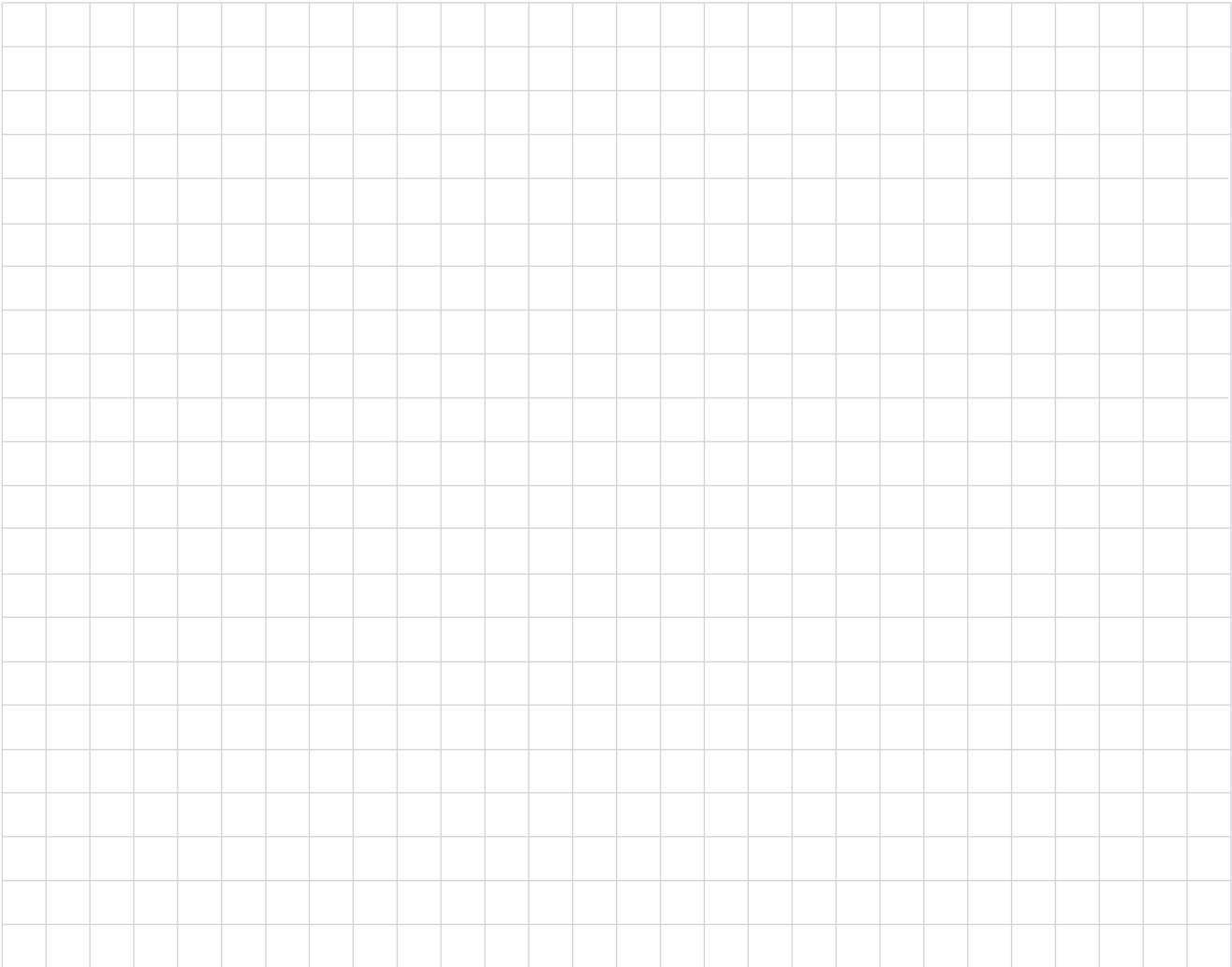


BOTTOM



Clearances

APPLIANCE SURFACE	SUGGESTED SERVICE ACCESS CLEARANCE	
	INCHES	CM
Left Side	6	15
Right Side	6	15
Top	12	30
Closet, Front	6	15
Front	24	61
Bottom	24	61
Vent	1	3
Certified by CSA for zero clearance to combustible materials on all sides.		



Bradford White reserves the right to change specifications, components, features, or to discontinue products without notice.



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