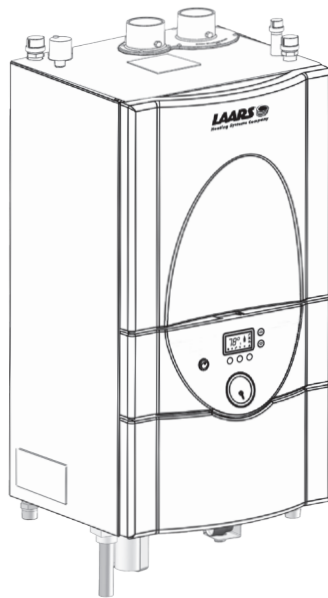


MASCOT[®] LX



Wall Mounted, Residential Boiler

MLXH Hydronic Boiler

Indoor, Sizes 50, 75, 100, 125, 150, 175, 220

Date:

Project #:

Engineer:

Prepared By:

Bid Date:

Submittal Data



Project Name:

Location:

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	☐ Condensate Neutralizer
☐ Concentric pipe, 24" long	☐ Horizontal concentric 2" PVC terminal	
☐ Concentric pipe, 36" long	☐ Horizontal concentric 3" PVC terminal	
☐ Concentric pipe, 13"-18" telescoping		

Sizing Data

Model	Input		Output		Gas Conn. Size inches	Water Conn. Size inches	Boiler Shipping Weight	
	BTU/h	kW	BTU/h	kW			lbs	kg
☐ MLX H 50	50,000	14.6	47,500	13.2	1/2" NPT	3/4" NPT	88	40
☐ MLX H 75	75,000	21.9	71,250	20.8	1/2" NPT	3/4" NPT	97	44
☐ MLX H 100	100,000	29.3	95,000	27.8	1/2" NPT	3/4" NPT	112	51
☐ MLX H 125	125,000	36.6	118,750	34.8	1/2" NPT	3/4" NPT	126	57
☐ MLX H 150	150,000	43.9	142,500	41.8	1/2" NPT	1" NPT	140	64
☐ MLX H 175	175,000	51.6	166,250	48.7	1/2" NPT	1" NPT	153	69
☐ MLX H 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
MLXH 50	120	Single	1.5
MLXH 75	120	Single	1.5
MLX H 100	120	Single	1.5
MLX H 125	120	Single	1.5
MLX H 150	120	Single	1.5
MLX H 175	120	Single	2.2
MLX H 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

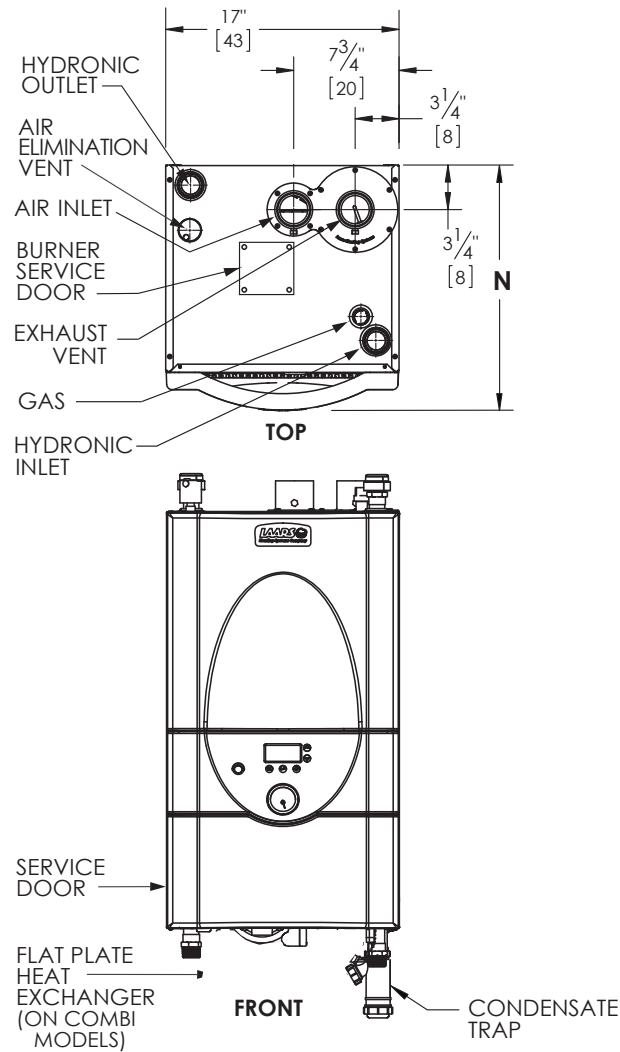
* Must use 2x3 adapter within 1 ft. (30cm) of boiler.

Reference the Installation and Operation Manual for more details.

Dimensional Data

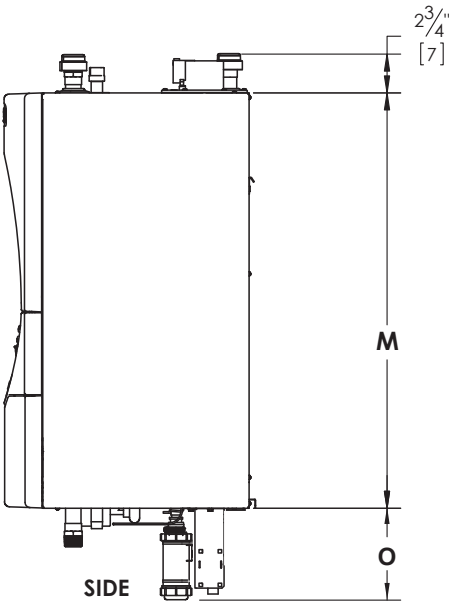
Model	Dimension							
	A	B	C	D	E	F	G	H
50, 75 MBH	1" (3)	15-3/4" (40)	3-3/4" (9)	9-1/4" (24)	8" (20)	1-1/2" (4)	5-3/4" (14)	15-1/2" (39)
100, 125 MBH	1" (3)	15-1/2" (39)	1-1/4" (3)	12-3/4" (33)	11" (28)	1-1/4" (3)	9-1/2" (24)	14-3/4" (37)
150, 175 MBH	1-1/2" (4)	15-1/4" (39)	1-3/4" (4)	13" (33)	11-1/4"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

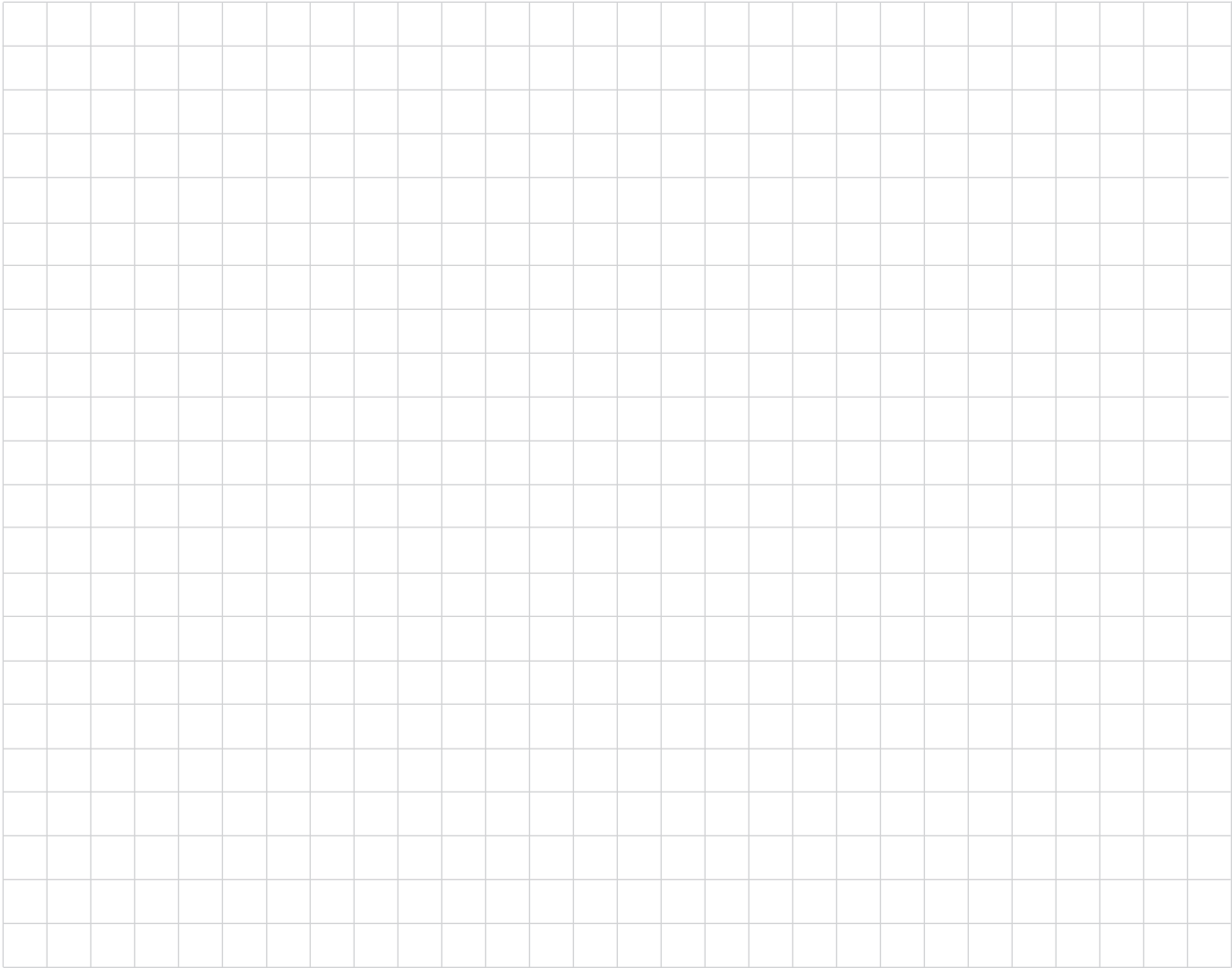
inches (cm)





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.		



Laars Heating Systems Company reserves the right to change specifications, components, features, or to discontinue products without notice.



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