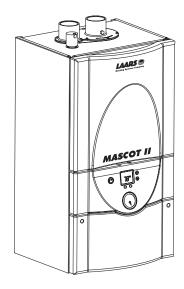
# MASCOT° II



	LMC Combi Boiler / Water Heater
Date:	Indoor Size 125
Project #:	Submittal Data
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 40 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

- Stainless Steel brazed-plate DHW heat exchanger with priority for on-demand hot water
- Boiler pump, wired and mounted inside jacket
- Expansion tank piped 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

Residential

**Hydronic Boiler** 

- Multiple pump control for boiler pump and system pump, each with delay
- Large user-interface and display
- Alarm output
- Accepts external (4-20mA or 0-10VDC) modulation signal
- Outdoor reset (sensor included)
- Vent temp auto turn-down before lockout
- Manual reset high limit
- Lighted on/off toggle switch
- Wall mount template
- Field convertible between natural gas and propane
- Zero clearance to combustible surfaces
- 12-Year limited warranty

Boiler Data

Number of Units:





Fuel

Natural
Propane





Sizing Data	Model	Inp	out	Out	out	DHW Output @	AFUE	Gas Conn. Size	Water Conn. Size		ping ight
		BTU/h	kW	BTU/h	kW	75°F Rise		inches	inches	lbs	kg
	LMC 125	125,000	36.6	121,250	35.5	3.1 gpm	95%	1/2 NPT	3/4 NPT	100	45
	NOTES:										

1. For other boiler ratings:

Boiler Horsepower: HP = Output Radiation Surface: EDR sq. ft. = Output33,475 150

## Clearances

Appliance	Suggestec Access Cl		
Surface	inches	ст	
Left Side	6	15	
Right Side	6	15	
Тор	6	15	
Closet, Front	6	15	
Front	24	61	
Bottom	24	61	
Vent	1	3	

NOTE: Certified by CSA for zero clearance to combustible materials on all sides.

# Electrical<br/>DataBoiler (includes pump)SizeVoltsPhaseAmpsLMC 125<br/>(With Pump)120Single1.5

\* Minimum 15A circuit required

Vent System
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#### INTAKE / EXHAUST

Max Equivalent\* Vent and Air Pipe Length (each)

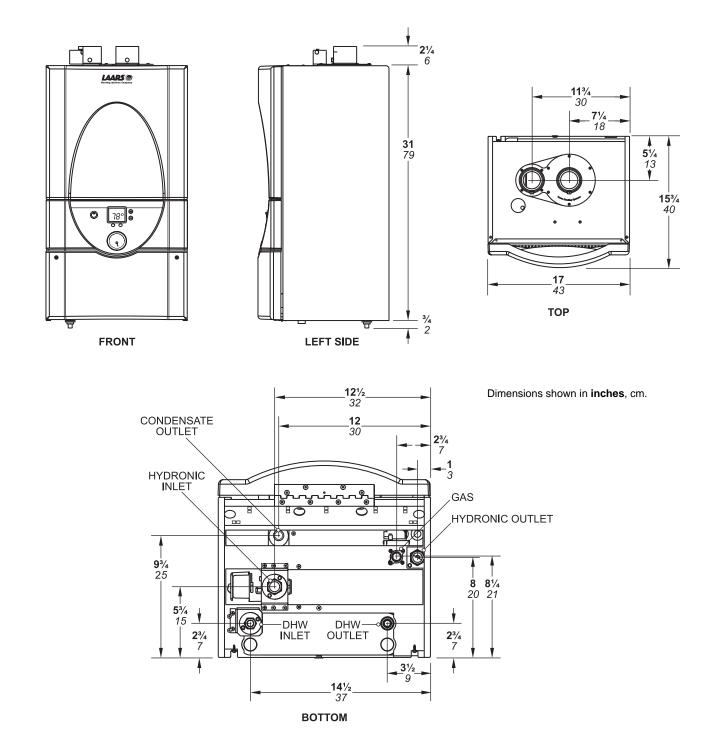
STANDARD			OPT	IONAL		
Size	2" dia	5.1cm	3"/5" dia	7.6/12.7cm		
125	40 ft	12.2m	40 ft	12.2m		
Installations in the U.S. require exhaust vent pipe that is PVC or CPVC complying with ANSI/ASTM D1785 F441 or stainless steel complying with UL1738. Laars						

supplies the first section of vent pipe which is 16" of CPVC with each boiler. Installations in Canada require exhaust vent pipe that is certified to ULC S636.

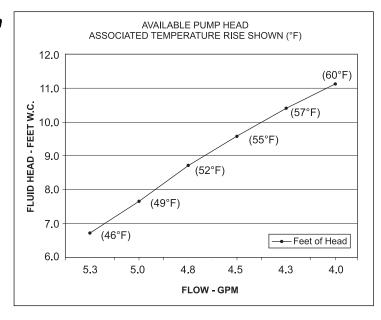
Intake (air) pipe may be PVC, CPVC, ABS or galvanized pipe.

\*To calculate equivalent length, measure the linear feet of the pipe, and add 5 feet (1.5m) for each elbow used.

Dimensional Data



# Heating System Pump Capacity



## **Domestic Hot** Water Heating Capacity

ESTIMATED N	ESTIMATED MAXIMUM TEMPERATURE RISE (°F) LMC 125					
	INLET TEMPERATURE °F					
GPM	50 60 7					
1.0	100	90	81			
2.0	90	83	79			
3.0	78	76	68			
4.0	59	56	51			
ESTIMATED I	ESTIMATED MAXIMUM TEMPERATURE RISE (°C) LMC 125					
	INLET TEMPERATURE °C					
LPM	10	16	21			
3.79	38	32	27			
7.57	32	28	26			
11.36	26	24	20			
15.14	15	13	11			

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



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