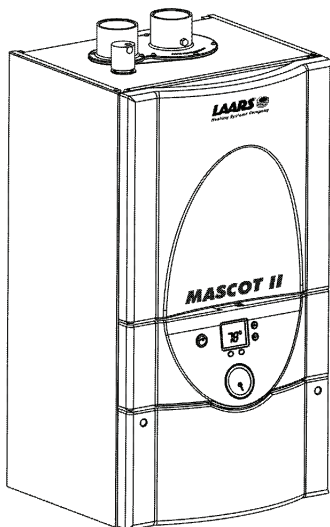


MASCOT® II



Residential Hydronic Boiler

LMH | Hydronic Boiler

Indoor Size 125

Submission Data **LAARS**
Heating Systems Company

Date:

Project #:

Engineer:

Prepared By:

Bid Date:

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 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
- 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
- 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 | Input | | Output | | AFUE | Gas Conn. Size inches | Water Conn. Size inches | Shipping Weight | |
|---------|----------------|------|----------------|------|------|-----------------------------|-------------------------------|--------------------|-----------|
| | BTU/h | kW | BTU/h | kW | | | | lbs | kg |
| LMH 125 | 125,000 | 36.6 | 112,500 | 32.9 | 95% | 1/2 NPT | 3/4 NPT | 100 | 45 |

NOTES:

1. For other boiler ratings:

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

Clearances

| Appliance Surface | Suggested Service Access Clearance | |
|----------------------|---------------------------------------|-----------|
| | inches | cm |
| Left Side | 6 | 15 |
| Right Side | 6 | 15 |
| Top | 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 Data

| Size | Boiler (includes pump) | | |
|------------------------|------------------------|--------|------|
| | Volts | Phase | Amps |
| LMH 125 (With Pump) | 120 | Single | 1.5 |

* Minimum 15A circuit required

Vent System

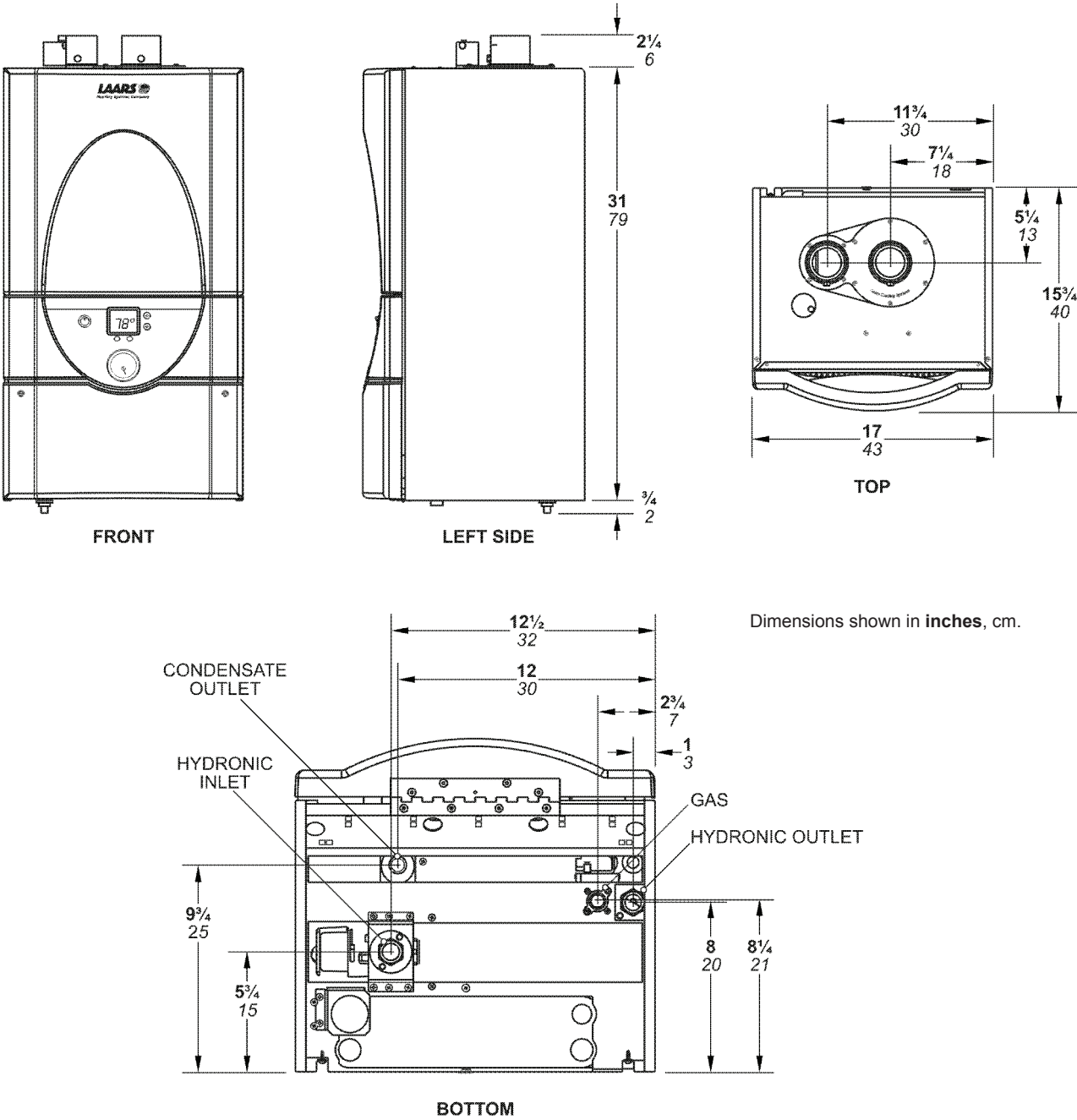
| INTAKE / EXHAUST | | | | | |
|---|--------|-------|-----------|------------|--|
| Max Equivalent* Vent and Air Pipe Length (each) | | | | | |
| STANDARD | | | OPTIONAL | | |
| Size | 2" dia | 5.1cm | 3"/5" dia | 7.6/12.7cm | |
| 125 | 40 ft | 12.2m | 40 ft | 12.2m | |

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.

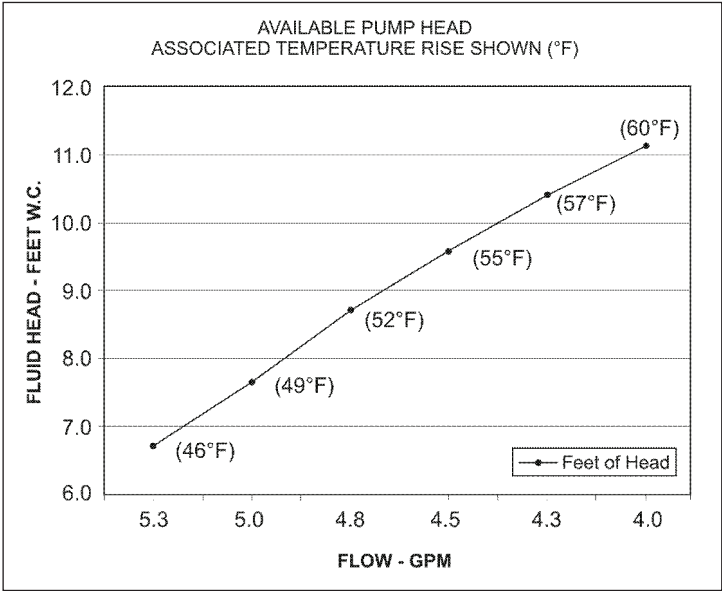
Intake (air) pipe may be PVC, CPVC, ABS or galvanized pipe.

*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



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