

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

MADD LLC & DIVERSIFIED PROPERTIES INC/Dorr,
Robert Jr.

PERMIT ID: 2012-65541

Located at

64 GERTRUDE AVE

CBL: 402 D005001

has permission to **Install Laars Mascot II Gas boiler**

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
THERE IS A PENALTY FOR REMOVING THIS CARD**

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 (ONLY)
or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

REQUIRED INSPECTIONS:

Close-in/Elec./Plmb./Framing
Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 201265541	Date Applied For: 12/06/2012	CBL: 402 D005001
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Location of Construction: 64 GERTRUDE AVE	Owner Name: MADD LLC & DIVERSIFIED PRO	Owner Address: 1326 WASHINGTON AVE	Phone:
Business Name:	Contractor Name: Dorr, Robert Jr.	Contractor Address: 17 Milliken Road Scarborough	Phone (207) 415-3375
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Dwelling under construction - #2011-07-1799	Proposed Project Description: Install Laars Mascot II Gas boiler
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 12/06/2012
Note:	Ok to Issue: <input checked="" type="checkbox"/>		

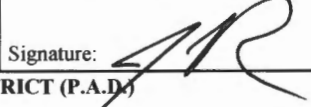
Dept: Building	Status: Approved w/Conditions	Reviewer: Jon Rioux	Approval Date: 12/18/2012
Note:	Ok to Issue: <input checked="" type="checkbox"/>		

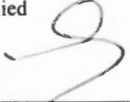
- 1) The installation must comply with UL, the Manufacturers' Listing, MUBEC (IRC, 2009), and State of Maine Gas Regulations. Separate permits are required for any electrical: plumbing, sprinkler, fire alarm, HVAC systems, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
Maintain proper setback(s) from property lines/buildings and proper clearances from vertical openings when direct venting
A Carbon Monoxide (CO) alarm shall be installed in each area within or giving access to bedrooms. That detection must be powered by the electrical service (plug-in or hardwired) in the building and battery.
M1804.2.5 Direct vent terminations. Vent terminals for direct-vent appliances shall be installed in accordance with the manufacturer's installation instructions.

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 2012-65541	Issue Date:	CBL: 402 D005001
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Business Name:	Contractor Name: Dorr, Robert Jr.	Contractor Address: 17 Milliken Road Scarborough	Phone (207) 415-3375
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: <input checked="" type="checkbox"/> R3
Past Use: Vacant lot	Proposed Use: SFH	Permit Fee: \$70.00	Cost of Work: \$5,000.00
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input checked="" type="checkbox"/> N/A	INSPECTION: Use Group: HVAC Type: ME Gas Regulations
Proposed Project Description: Install Laars Mascot II Gas boiler		Signature:	Signature: 
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)	
		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	
		Signature: _____ Date: _____	

Permit Taken By: bjs	Date Applied For: 12/06/2012	Zoning Approval		
<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>		Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <u>12/16/12</u>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: 

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

CITY OF PORTLAND
DEPARTMENT OF PLANNING & URBAN DEVELOPMENT

389 Congress Street
 Portland, Maine 04101

INVOICE FOR PERMIT FEES

Application No: 201265541	Applicant: MADD LLC & DIVERSIFIED PRO
Project Name: Install Laars Mascot II Gas boiler	Location: 64 GERTRUDE AVE
CBL: 402 D005001	Development Type:
Invoice Date: 12/06/2012	

Previous Balance	-	Payment Received	+	Current Fees	-	Current Payment	=	Total Due	Payment Due Date
\$0.00		\$0.00		\$70.00		\$70.00		\$0.00	On Receipt

Previous Balance **\$0.00**

Fee Description	Qty	Fee/Deposit Charge
Cost of Work Add'l \$1000 Heating Systems	1	\$40.00
	1	\$30.00
		\$70.00
	Total Current Fees:	+ \$70.00
	Total Current Payments:	- \$70.00
	Amount Due Now:	\$0.00

Bill to: MADD LLC & DIVERSIFIED PROPERTIES INC
 1326 WASHINGTON AVE
 PORTLAND, ME 04103

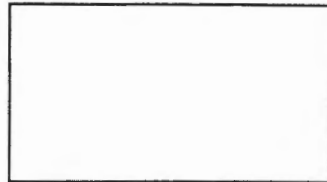
CBL 402 D005001
Application No: 201265541
Invoice Date: 12/06/2012
Invoice No: 39274
Total Amt Due: \$0.00
Payment Amount: \$70.00

Make checks payable to the *City of Portland*, ATTN: Inspections, 3rd Floor, 389 Congress Street, Portland, ME 04101.



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 64 Gertrude St. 402 DOOS Use of Building Residence Date 11-6-12

Name and address of owner of appliance Same

Installer's name and address Robert S Dorr
17 Milliken Rd. Scarborough, Me. Telephone 415-3375

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name:

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 3597
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 5000.00

Permit Fee: \$ 70

RECEIVED
UL# _____
DEC 06 2012
Dept. of Building Inspections
City of Portland Maine

Approved

Fire: _____
Ele.: _____
Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Signature of Installer Robert S Dorr

Inspector's Signature _____

Date Approved _____

NOW WITH 100%
CUSTOMER SATISFACTION
GUARANTEE

LAARS® MASCOT® II

Gas-Fired Wall-Mounted
Combination Boiler &
Water Heater



LAARS® 
Heating Systems Company
A subsidiary of **BRADFORD WHITE** Corporation

64 Genturde st.



View our entire product line at www.Laars.com



LAARS 

Heating Systems Company

A subsidiary of **BRADFORD WHITE** Corporation

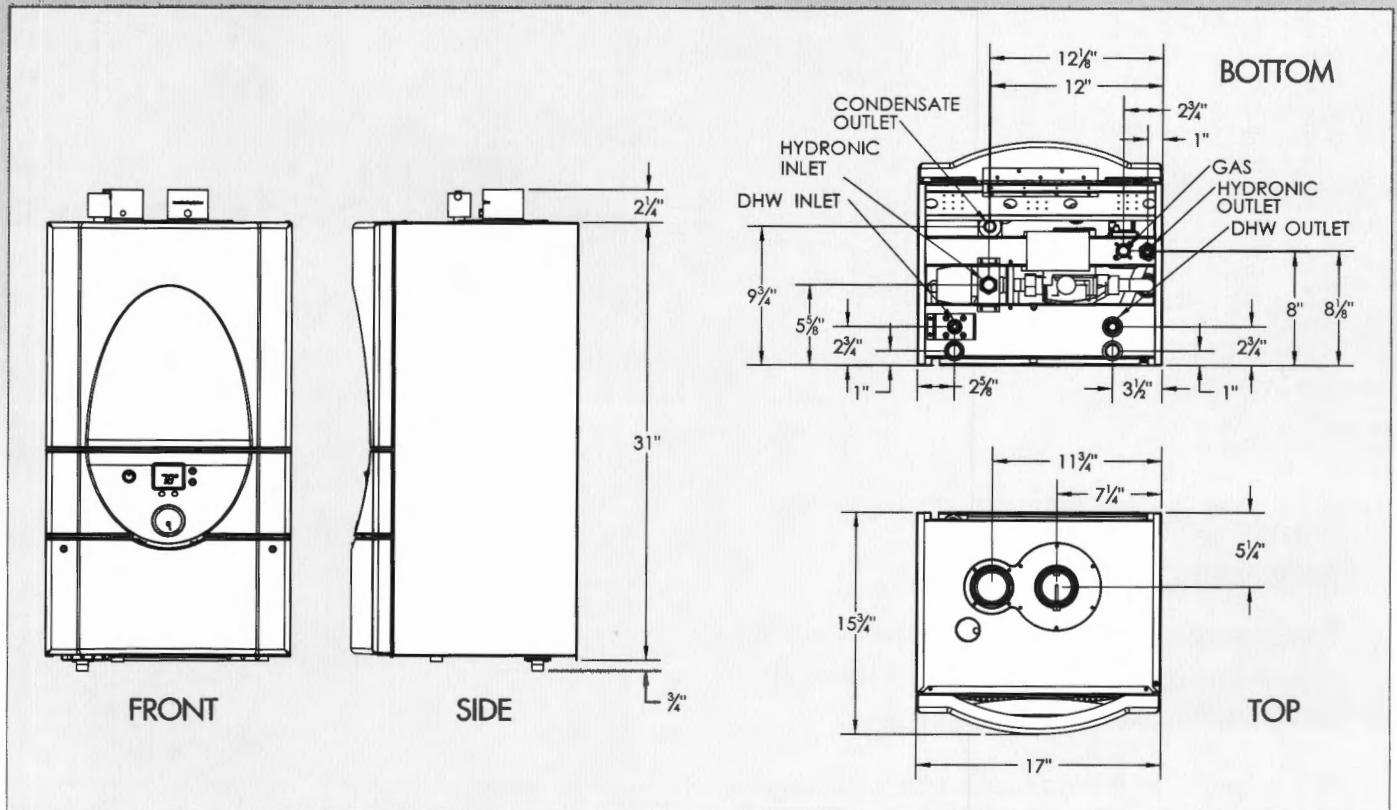
800.900.9276 • Fax 800.559.1583 (Customer Service, Service Advisors)

20 Industrial Way, Rochester, NH 03867 • 603.335.6300 • Fax 603.335.3355 (Applications Engineering)

1869 Sismet Road, Mississauga, Ontario, Canada L4W 1W8 • 905.238.0100 • Fax 905.366.0130

www.Laars.com

LAARS® MASCOT® II DIMENSIONS



LAARS® MASCOT® II SPECIFICATIONS

DESCRIPTION	MASCOT II - 125	
Fuel	Natural Gas / LP Gas	
Input, max fire	125,000 BTU/hr	36.6 kW
Output, max fire	121,250 BTU/hr	35.5 kW
DHW Max Outlet Water Temp	180 °F	60 °C
DHW Max Flow Rate (dt@60°F)	4.0 gpm	15.1 l/m
Flow Rate, min	0.5 gpm	1.9 l/m
Pressure Relief Setting	30 psi	207 kPa
Gas Connection	1/2	NPT
Supply Flow Connection	3/4	NPT
Return Flow Connection	3/4	NPT
Burner and Heat Exchanger Material	Stainless Steel	—
Weight	100 lbs	45.4 kg
Service Clearances		
Front and Bottom	24 in	61 cm
Top and Sides	6 in	15.2 cm
Air Vents		
Two Pipe Flue Terminal	2 in	5.1 cm
Concentric	3 / 5 in	7.6 / 12.7 cm
Electrical Supply		
Voltage	120 V	
Frequency	60 HZ	

High Efficiency Mascot® II Boilers

The Mascot II is a 125 MBTU heating only or combination ("Combi" - heating and domestic hot water) wall mounted boiler packed with features and benefits that both the homeowner and contractor can enjoy.

For the homeowner, the Mascot II offers a 95% plus efficiency rating for lower operating costs, has "zero clearance installation" so it can fit just about anywhere and has a modern appliance design. It is a reliable, quiet, smooth operating boiler that has enough output to keep your home warm with continuous hot water for long relaxing showers.

Contractors will love the Mascot II because they install in less time than other units do, thanks to the service-friendly design and full package of system components. Components are easily accessible for disassembly, should an unlikely call for service be required, saving service time and money.

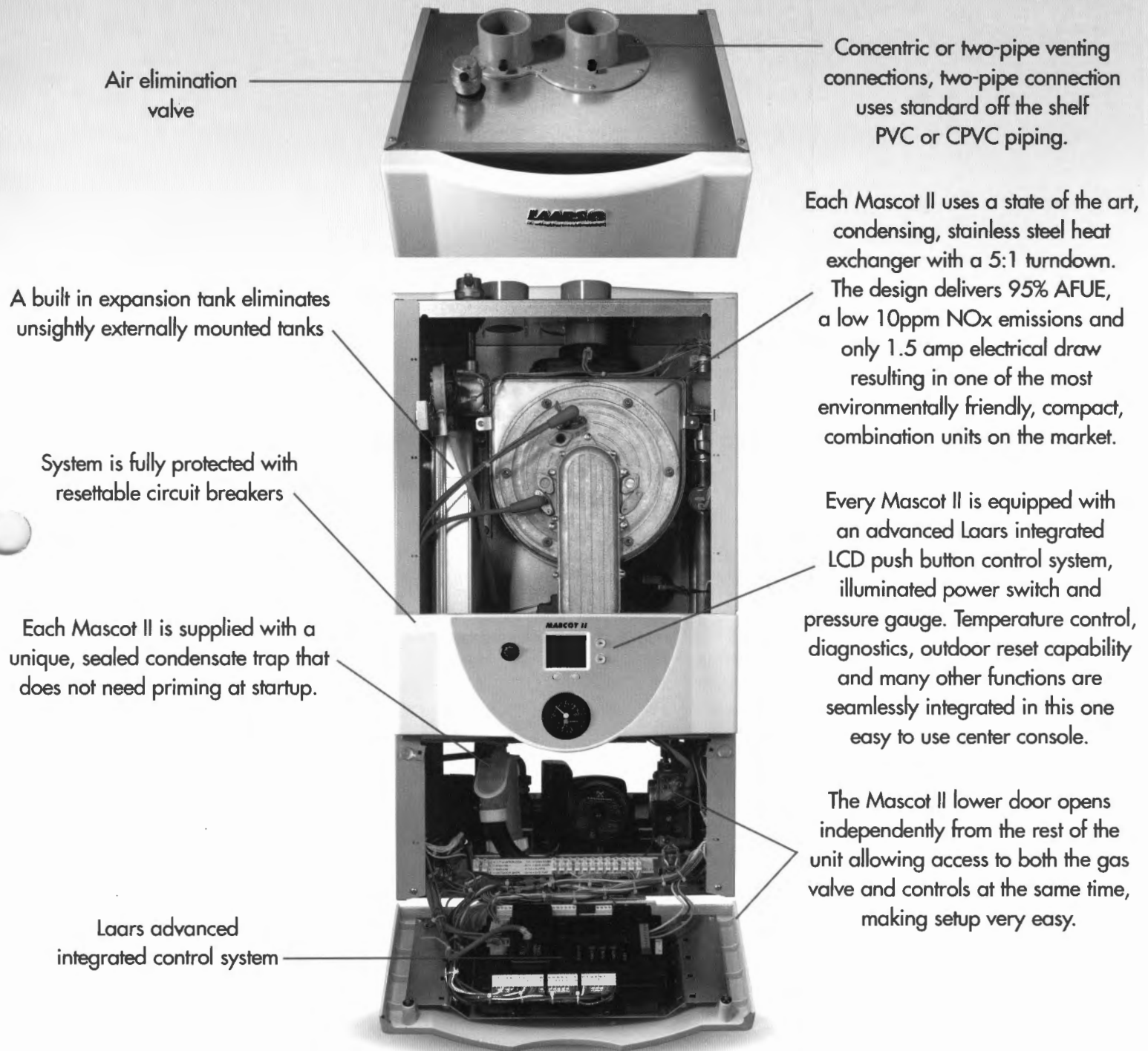
Boiler setup is a breeze because of full access to both the gas valve and control panel at the same time (see figure on following page). The gas valve is accessible directly behind the front lower panel that rotates down via a hinged connection. While the lower panel is open, the center console that houses the control display remains closed and fully visible.

- Sleek, appliance-grade cabinet that looks great in any location
- 95% AFUE efficiency, condensing operation
- 2-year parts warranty, 12-year heat exchanger warranty
- Energy Star qualified
- Zero Installation Clearance
- Sealed combustion
- Direct spark ignition for smooth reliable starts
- Two venting options to meet the needs of almost any installation
- Optimized gas usage for lower energy bills via 20% to 100% input modulating gas valve
- Quiet variable speed blower
- Boilers are set up for natural gas, no parts necessary for conversion to LP gas
- Built in expansion tank that will handle 26 gallons of system water (enough to cover 1,800 feet of ½" PEX tubing)
- Three speed circulator with air vent and "quick-remove" mounting system
- Automatic 3-way valve for DHW priority eliminates the need for separate zone setup when using an indirect DHW tank
- Mounting kit with template and wall bracket for fast and easy installation
- Light-weight (100 lbs.) makes handling easy
- Stainless steel A.S.M.E. primary heat exchanger with externally welded manifolds for better flow rates and prevention of leaks
- Stainless steel brazed plate DHW heat exchanger (combi models) with advanced flow switch
- Hydronic system water pressure sensor for safety at low water levels
- Advanced Laars integrated control system with temperature control, diagnostics, outdoor reset capability, and easy access for field wiring
- Unique, sealed condensate trap does not need to be primed at startup
- Pump Freeze Protection

LAARS
Heating Systems Company
A subsidiary of BRADFORD WHITE Corporation

MASCOT® II

INTELLIGENTLY DESIGNED



Air elimination valve

Concentric or two-pipe venting connections, two-pipe connection uses standard off the shelf PVC or CPVC piping.

A built in expansion tank eliminates unsightly externally mounted tanks

Each Mascot II uses a state of the art, condensing, stainless steel heat exchanger with a 5:1 turndown. The design delivers 95% AFUE, a low 10ppm NOx emissions and only 1.5 amp electrical draw resulting in one of the most environmentally friendly, compact, combination units on the market.

System is fully protected with resettable circuit breakers

Every Mascot II is equipped with an advanced Laars integrated LCD push button control system, illuminated power switch and pressure gauge. Temperature control, diagnostics, outdoor reset capability and many other functions are seamlessly integrated in this one easy to use center console.

Each Mascot II is supplied with a unique, sealed condensate trap that does not need priming at startup.

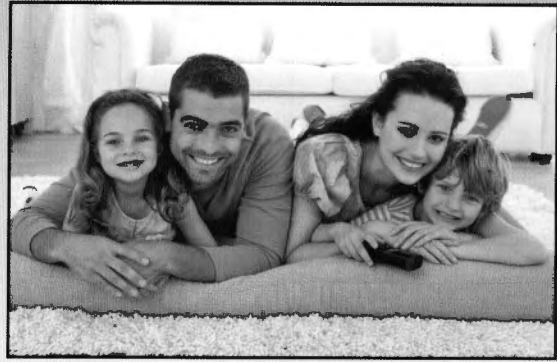
The Mascot II lower door opens independently from the rest of the unit allowing access to both the gas valve and controls at the same time, making setup very easy.

Laars advanced integrated control system

Mascot II boilers are designed with a built-in expansion tank, air elimination vent, three-speed circulator, primeless condensate trap and direct access to wiring. These features, along with a wall-mounting template, save contractors hundreds of dollars in material & labor and help reduce installation errors. Not to mention most components are "off the shelf" replacement parts and can easily be obtained from many distribution locations.

THE MASCOT® II

- Operates quietly, smoothly and reliably
- Energy Star rated, 95% Efficient (AFUE)
- Low emissions, 10ppm NOx
- Zero installation clearance, fits almost anywhere
- Easy to install, setup and service
- 2 year parts, 12 year heat exchanger warranty



100% CUSTOMER SATISFACTION GUARANTEE

If your Mascot II requires more than two warranty service repairs during the first year of operation, we will replace the boiler at no charge!

This program rivals any in the industry. All you have to do is have the boiler installed and started up per the installation & operations manual and register with Laars via a 10-Point installation checklist. It's that simple, Laars is engineered to be the best.

Ask your local Laars representative for details.

MASCOT® II APPLICATIONS

- Perfect for radiant floor heating applications, and systems with large emitters - no restriction on low return water temperatures
- Approved for closet and alcove installations – perfect for condominiums and town homes
- Great for saving space by combining heating and domestic hot water in one small appliance



**American design, with clean
appliance look and feel**

LAARS 
Heating Systems Company
A subsidiary of **BRADFORD WHITE** Corporation