

# City of Portland, Maine - Building or Use Permit Application

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

Permit No: 09-1327	Issue Date:	CBL: 399 E002001
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Location of Construction: 571 ALLEN AVE	Owner Name: HILT TARA L	Owner Address: 571 ALLEN AVE	Phone:
Business Name:	Contractor Name: Robert Dorr	Contractor Address: 17 Milliken Road Scarborough	Phone 2074153375
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R3

Past Use: Single Family Home	Proposed Use: Single Family Home - install a Mascot Gas Boiler	Permit Fee: \$70.00	Cost of Work: \$5,000.00	CEO District: 4
Proposed Project Description: install a Mascot Gas Boiler		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type: SB IRC 2003 SI ME GAS REGS Signature: Jm 11/23/09	
		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: Ldobson	Date Applied For: 11/19/2009	<b>Zoning Approval</b>		
<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>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..</li> </ol>		<b>Special Zone or Reviews</b> <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: 11/23/09 J	<b>Zoning Appeal</b> <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:	<b>Historic Preservation</b> <input checked="" type="checkbox"/> Not in District or Landmark <input checked="" 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: 11/23/09 J

## 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.

PERMIT ISSUED

SIGNATURE OF APPLICANT \_\_\_\_\_ ADDRESS \_\_\_\_\_ DATE 23 2009 PHONE \_\_\_\_\_

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE \_\_\_\_\_ DATE of Portland PHONE \_\_\_\_\_

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<b>Permit No:</b> 09-1327	<b>Date Applied For:</b> 11/19/2009	<b>CBL:</b> 399 E002001
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<b>Location of Construction:</b> 571 ALLEN AVE	<b>Owner Name:</b> HILT TARA L	<b>Owner Address:</b> 571 ALLEN AVE	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Robert Dorr	<b>Contractor Address:</b> 17 Milliken Road Scarborough	<b>Phone</b> (207) 415-3375
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	

<b>Proposed Use:</b> Single Family Home - install a Mascot Gas Boiler	<b>Proposed Project Description:</b> install a Mascot Gas Boiler
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**Dept:** Zoning      **Status:** Approved with Conditions      **Reviewer:** Tom Markley      **Approval Date:** 11/23/2009

**Note:** **Ok to Issue:**

- 1) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals.
- 2) This property shall remain a single family dwelling. Any change of use shall require a separate permit application for review and approval.

**Dept:** Building      **Status:** Approved with Conditions      **Reviewer:** Tom Markley      **Approval Date:** 11/23/2009

**Note:** **Ok to Issue:**

- 1) The appliance and venting shall be installed in accordance with the UL listing, IMC 2003 and NFPA 211.
- 2) The installation must comply with the State of Maine Gas Regulations.
- 3) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.

PERMIT ISSUED

NOV 23 2009

City of Portland

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

Permit No: 09-1327	Date Applied For: 11/19/2009	CBL: 003 399 E002001
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Location of Construction: 573 571 ALLEN AVE	Owner Name: <del>HETTARA-L</del> Madalio	Owner Address: 573 571 ALLEN AVE	Phone:
Business Name:	Contractor Name: Robert Dorr	Contractor Address: 17 Milliken Road Scarborough	Phone: (207) 415-3375
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home - install a Mascot Gas Boiler	Proposed Project Description: install a Mascot Gas Boiler
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<b>Dept:</b> Zoning	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Tom Markley	<b>Approval Date:</b> 11/23/2009
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PERMIT ISSUED

NOV 23 2009

City of Portland





FILL IN AND SIGN WITH INK

PERMIT ISSUED

NOV 23 2009

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

City of Portland

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 399-E-2 Use of Building SFH Date 11-19-09  
 Name and address of owner of appliance DAN ANDERSON - (Madel LLC)  
573 ALLEN AVE. Portland Me.  
 Installer's name and address Robert Dorr  
17 Milliken Rd. Scarborough Me. 04074 Telephone 415-3375

### Location of appliance:

- Basement
- Floor
- Attic
- Roof

### Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Mascot Gas boiler

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 Aluminum UL# \_\_\_\_\_

### Type of Fuel Tank

- Oil
- Gas

Size of Tank \_\_\_\_\_

Number of Tanks \_\_\_\_\_

Distance from Tank to Center of Flame \_\_\_\_\_ feet.

Cost of Work: \$ 5000.00

Permit Fee: \$ 70

### Approved

### Approved with Conditions

Fire: \_\_\_\_\_

Ele.: \_\_\_\_\_

Bldg.: \_\_\_\_\_

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer Robert Dorr

White - Inspection

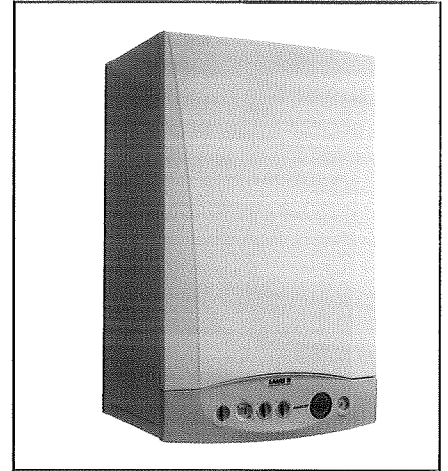
Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

# **Mascot**

Gas-Fired Residential  
and Commercial  
Wall-Mounted Boiler



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**Easy Installation,**

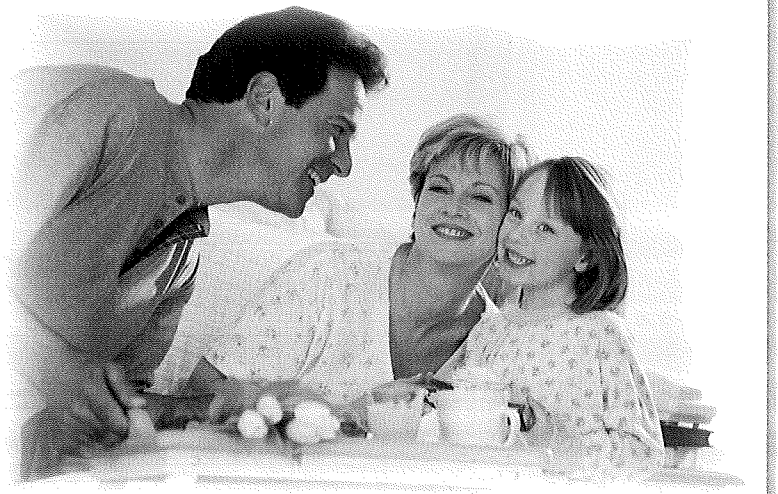
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**96% Efficiency,**

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**Fully Condensing**

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**LAARS**® 

*Heating Systems Company*

A subsidiary of **BRADFORD WHITE**® Corporation

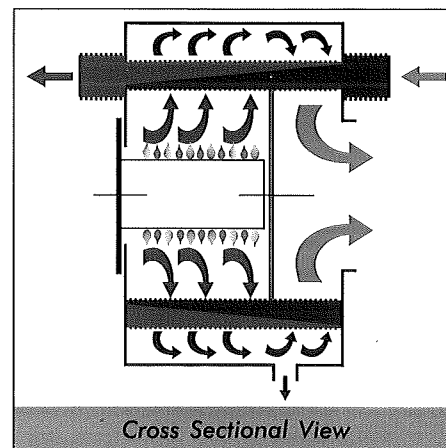
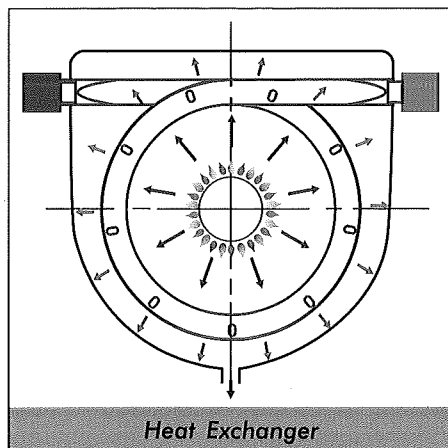
**Mascot** is a high-efficiency, wall-mounted boiler available in three BTU sizes – 126, 167, and 242 MBTU. The two 126 MBTU boilers are considered residential and they are available both as “heating only” boilers (model HT 1.330) and as “combi” boilers with both hydronic heating and domestic hot water (model HT 330).

The **Mascot** 167 & 242 MBTU boilers (HT 1.450 & HT 1.650) are packaged differently for potential commercial applications using either single or multiple boiler installations. This means that customers may order single or multiple piping assemblies with the Mascot HT 1.450 or HT 1.650.

### Residential Boilers are Fully Packaged

Both residential models (HT 330 & HT 1.330) are loaded with features that most other boilers don't include, making **Mascot boilers faster, easier and less expensive** to install. **Mascot** residential boiler features that are standard with every 330 and 1.330 boiler include:

- Sleek, appliance-grade cabinet that looks great in any location
- Up to 96% efficiency, condensing operation
- 2-year parts warranty, 10-year heat exchanger warranty
- Sealed combustion
- Direct spark ignition for reliability and smooth starts
- Three venting options to meet the needs of almost any installation
- Modulating gas valve that varies from 30% to 100% input
- Variable speed quiet blower
- Boilers are set up for natural gas, no parts necessary for conversion to LP gas
- Built in expansion tank that will handle 26.4 gallons of system water (enough to cover 1,800' feet of ½" PEX tubing)
- Built-in water fill valve
- Water flow sensor for hydronic system
- Grundfos circulator with air vent and “quick-remove” mounting system
- Automatic 3-way valve for DHW priority (both combi and heating only)
- Back-flow preventer
- 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 plane DHW heat exchanger (combi models) with advanced hall sensor flow switch that detects .5 gpm DHW flow rates
- Built-in reverse-pressure by-pass to prevent short cycling
- Advanced Siemens control system with temperature control, diagnostics, outdoor reset capability, and easy access for field wiring
- Complete piping kit with isolation valves, gas cock, domestic water connection adapters with unions, hydronic connectors with unions
- Condensate trap that is easy to inspect & remove from outside the boiler



# Specifications

DESCRIPTION	RESIDENTIAL				COMMERCIAL						
	HT 330		HT 1.330		HT 1.450		HT 1.650				
Fuel	NG / LP		NG / LP		NG / LP		NG / LP				
Input, max fire	BTU/h	kW	126,376	37.0	126,376	37.0	167,262	49.0	241,600	70.8	
Output, maximum fire	BTU/h	kW	112,601	33.0	112,601	33.0	153,618	45.0	221,789	65.0	
DHW Outlet Water Temp.	°F	°C	140	60	n/a		n/a		n/a		
Max. DHW flow rate (dt@80°F)	gpm	l/m	3.6	14	n/a		n/a		n/a		
Min. DHW pressure	psi	kPa	2.9	20	n/a		n/a		n/a		
Max. DHW pressure	psi	kPa	116	800	n/a		n/a		n/a		
Pressure Relief Valve Setting	psi	kPa	30	207	30	207	30	207	30	207	
Supply Flow Connection	in	cm	3/4	1.9	3/4	1.9	3/4	1.9	3/4	1.9	
Return Connection	in	cm	3/4	1.9	3/4	1.9	3/4	1.9	3/4	1.9	
Relief Valve Connection	in	cm	3/4	1.9	3/4	1.9	3/4	1.9	3/4	1.9	
Burner and Heat Exchanger			stainless		stainless		stainless		stainless		
Service Clearances	top	in	cm	9	23	9	23	9	23	9	23
	bottom	in	cm	10	25	10	25	10	25	10	25
	sides	in	cm	2	5	2	5	2	5	2	5
	front	in	cm	18	46	18	46	18	46	18	46
Dimensions	height	in	cm	30.0	76	30.0	76	37.4	95	37.4	95
	width	in	cm	17.7	45	17.7	45	23.6	60	23.6	60
	depth	in	cm	13.6	35	13.6	35	18.4	47	18.4	47
Gas Connection	in	cm	3/4	1.9	3/4	1.9	3/4	1.9	3/4	1.9	
Air Duct Diameter	in	cm	3.93	10	3.93	10	4.92	10	4.92	10	
Flue Duct Diameter	in	cm	2.36	6	2.36	6	3.15	8	3.15	8	
Electrical Supply	voltage	V	120		120		120		120		
	frequency	Hz	60		60		60		60		
Water Content	gal	L	31.7	120	31.7	120	31.7	120	31.7	120	
Concentric Vent-Air	in	cm	2.36-3.93	6-10	2.36-3.93	6-10	3.15-4.92	8-12	3.15-4.92	8-12	
Flue Terminal Size (2-pipe)	in	cm	3.14	8	3.14	8	3.14	8	3.14	8	
Flue Terminal Protrusion	in	cm	4.52	11	4.52	11	4.52	11	4.52	11	
Lift Weight	lbs	kg	103	47	102	46	141	64	159	72	

## Mascot Applications

- Perfect for radiant floor heating applications, with 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 (HT 330 only)
- Multiple commercial boilers can easily be installed with pre-designed & manufactured water manifolds with “low-loss” headers for up to three boilers (HT 1.450 and HT 1.650 only)

## Mascot Advantages

- **Mascot** is a high-quality, high-performance boiler with premium components and a superior design
- **Mascot's** features far surpass those of the competition, and at a competitive price.
- **Mascot** boilers install in less time than competitors because of the service-friendly design and full package of system components.
- **Mascot** boilers are designed with the contractor in mind. Easy removal of internal circulator, unions on gas valves, unions on all water piping connections, and gasketed venting connections save service time and money.



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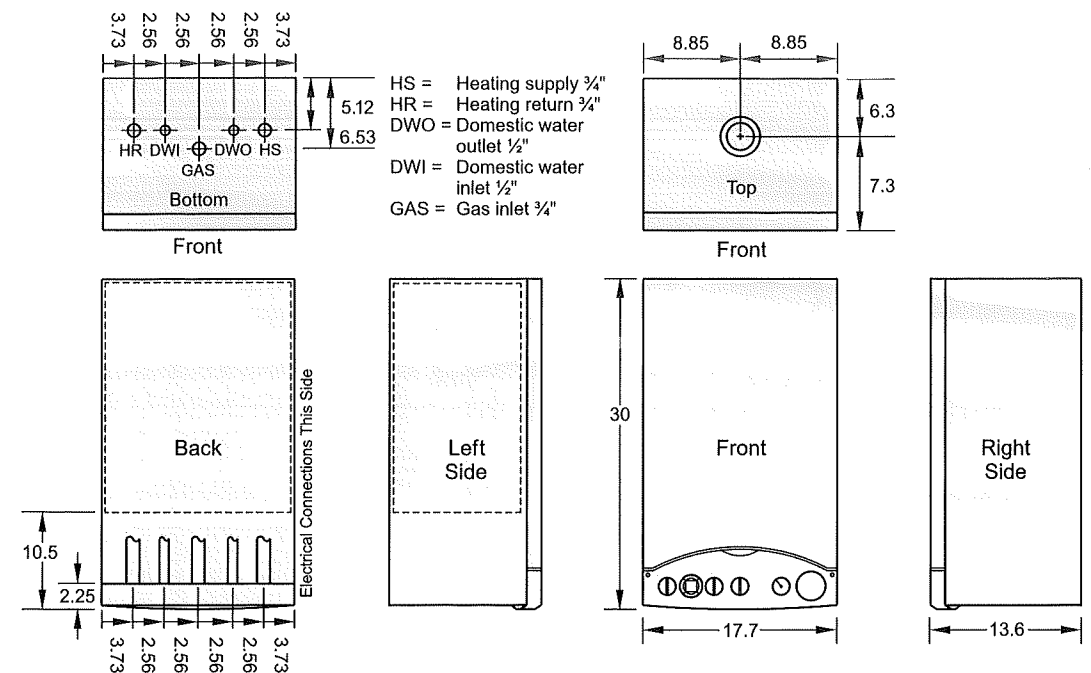
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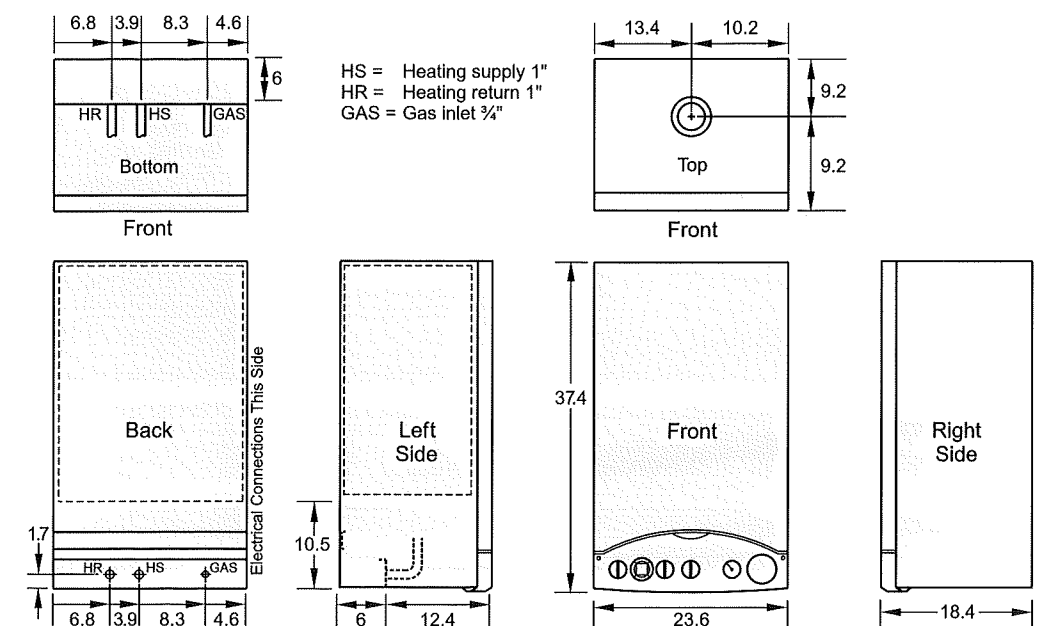
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## Dimensions

### Sizes 330 and 1.330



### Sizes 1.450 and 1.650



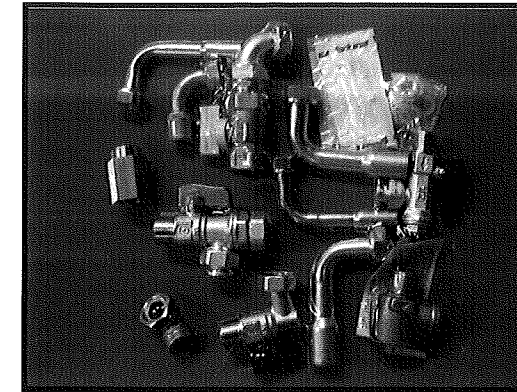
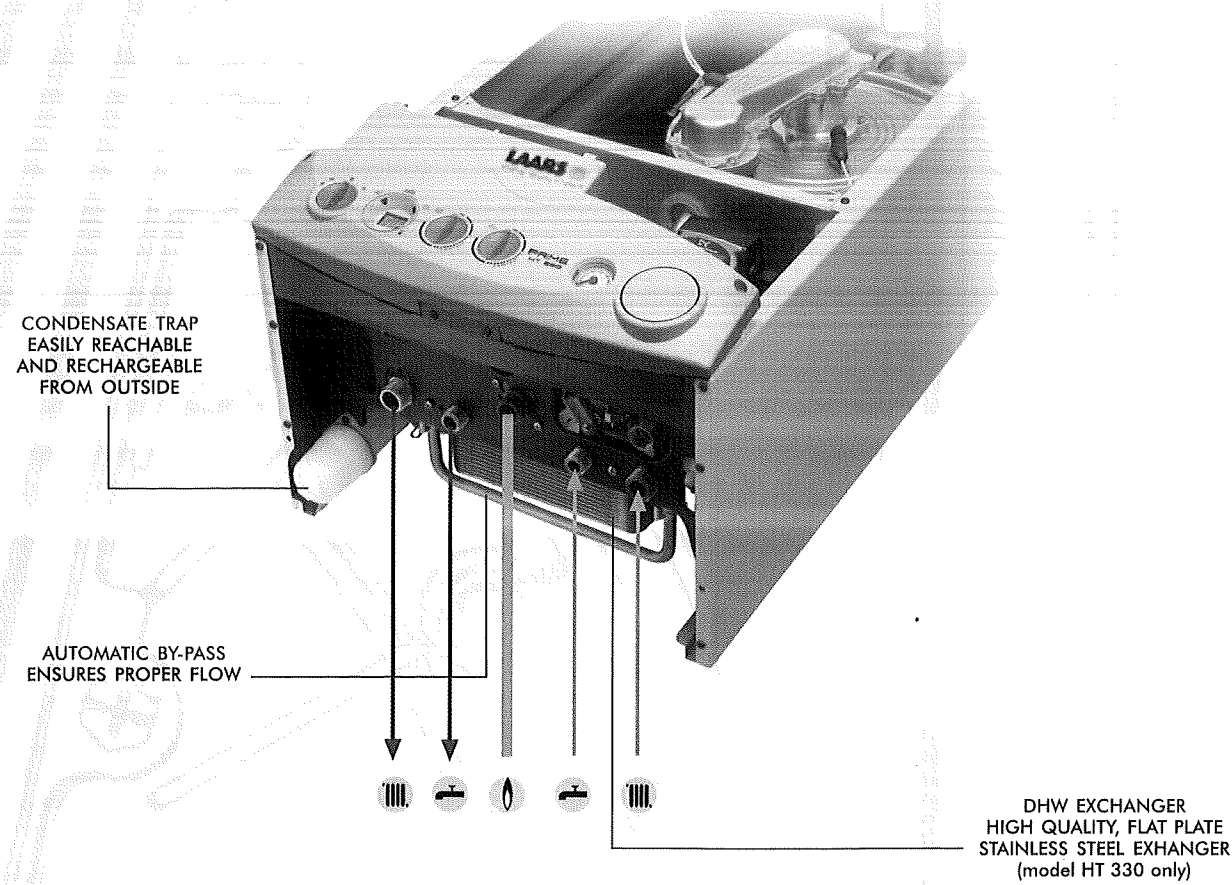


## Premium Components

### Contractor Competitive Advantage

Fully packaged with premium components to save the contractor time and money. **Each residential unit comes with an installation kit that includes all necessary connections, isolation valves and unions for water and gas.**

Mascot residential boilers are designed with a built-in expansion tank, air elimination vents, and circulator. This will save contractors hundreds of dollars in material and labor.



### Mascot Piping Kit Makes Installation Quick and Easy.

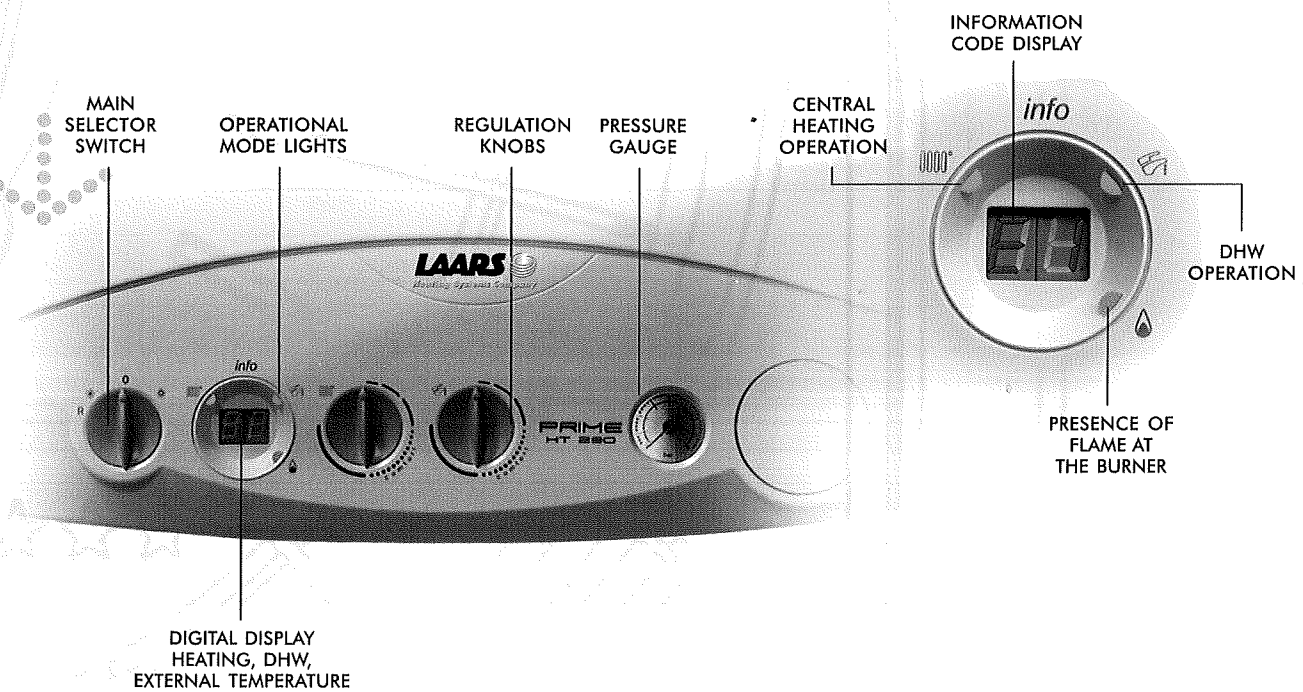
With every residential boiler comes an installation kit that includes boiler & DHW water and gas piping connections, isolation valves, and unions.

Mascot installation kits save contractors time & money and reduce installation errors.



### Common Plumbing Connections.

The commercial Mascot boilers may be common piped. Pre-assembled low-loss manifolds save time and provide proper piping configuration to maximize condensing mode for optimum efficiency.



*Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.*



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

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[www.Laars.com](http://www.Laars.com)

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