City	of Portland, Ma	aine - Buil	ding or Use	Permi	t Applicatio	n Pe	rmit No:	Issue Date	:	CBL:		
389 (Congress Street, 04	1101 Tel: (1	207) 874-8703	, Fax:	(207) 874-87	16	09-1103			335 B00	7001	
Location of Construction: Owner Name:						Owne	Owner Address:			Phone:		
45 Beverly St Diversified P				operties	Inc	Po E	3ox 10127					
Busine	ess Name:	_	Contractor Name	:		Contr	actor Address:			Phone		
			Dorr, Robert J	r.		17 N	Milliken Road	l Scarboroug	gh	20741533	75	
Lessee/Buyer's Name Phone:			Phone:		T	Permi	it Type:			1	Zone: -	
						HV	AC			112-7		
Past Use: Proposed Use:			Proposed Use:			Perm	it Fee:	Cost of Work:		CEO District:	7	
1			1 -	Single Family / Install Mascot / Laars aluminium direct vent gas			\$80.00	\$6,000.00 INSPECT				
			DEPT:				_					
			heating system	in the	basement.		L					
							_ Denied		1		,	
]						1 IXC 2003			
Propo	sed Project Description	<u> </u>				\dashv			577	ME GASA	655	
_	ıll Mascot / Laars alu		ct vent gas heati	ng syste	em in the	Signa	ture:		Signati	ure: Daa.	de las	
	ment.		or come gain mount			1 -	STRIAN ACT	IVITIES DIST	rrict (P.A.D.)	4/13/10/	
						Actio	n: Appro	ved App	proved w	/Conditions	Denied	
						Signa	ture:			Date:		
Permi	t Taken By:	Date Ap	oplied For:				Zoning	Approva				
gg		10/05	5/2009				Zonne	, ripprovi	•••			
	This permit application	ion does not	nreclude the	Spe	cial Zone or Revi	ews	ws Zoning Appeal			Historic Preservation		
	Applicant(s) from m			 	oreland		Varianc	A		Phone: Phone 2074153375 Zop Zop	t or Landmar	
	Federal Rules.	8 app		_ 31	lorciand		Varianc	C		Not in Distric	t of Eandman	
2	Duilding normite do	nat inaluda r	alumbina	$ \square_{\mathbf{w}}$	etland		☐ Miscellaneous			Does Not Require Review		
	Building permits do septic or electrical w		olumoing,		ctiand							
	Building permits are		r is not started	Flood Zone			Conditional Use			Requires Revi	iew	
	within six (6) month											
	False information ma			l ⊟ sı	ıbdivision		☐ Interpre	tation		Approved		
	permit and stop all w		Ü		iour ision		_ merpie	iution				
	•			Site Plan			Approved			Approved w/Conditions		
				_ 51	ic i ian			-u		Apploved with	Onditions	
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				•	CERTIFICATI	ON						
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I have	e been authorized by	the owner to	make this annli	ineu pro	as his authorize	d agen	poseu work is tand Lagree	to conform	to all a	nnlicable laws o	nf this	
shall l	have the authority to	enter all area	as covered by su	ich pern	nit at any reaso	nable l	our to enforc	e the provi	ki Of Br	9ht/30ak (s) app	licable to	
	permit.		-		-			-		• • • •		
SIGN	ATURE OF APPLICANT	•			ADDRES	<u> </u>		DATE		DLION	JE	
SION	ATORE OF APPLICANT				ADDRES	is.		DATE		PHO	NE	
RESP	ONSIBLE PERSON IN C	CHARGE OF W	ORK, TITLE					DATE		PHON	√E	

City of Portland, Maine - Bu	ilding or Use Permi	t		Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel:	(207) 874-8703, Fax: ((207) 87	4-8716	09-1103	10/05/2009	335 B007001
Location of Construction:	Owner Name:		0	wner Address:		Phone:
45 Beverly St	Diversified Properties	F	Po Box 10127			
Business Name:	Contractor Name:		C	ontractor Address:		Phone
	Dorr, Robert Jr.		1	17 Milliken Road S	Scarborough	(207) 415-3375
Lessee/Buyer's Name	Phone:		- 1	ermit Type: HVAC		
Proposed Use:		•	Proposed	Project Description:		
Single Family / Install Mascot / Laar heating system in the basement.	s aluminium direct vent g	gas	Install M the base		minium direct vent	gas heating system in
					.	
Note: 1) This is NOT an approval for an a	•	You SHA	ALL NO	•	ial kitchen equipme	Ok to Issue: 🗹
Note: 1) This is NOT an approval for an anot limited to items such as stove	additional dwelling unit.	You SHA tors, or k	ALL NO' itchen sir	T add any additior nks, etc. Without s	nal kitchen equipme pecial approvals.	Ok to Issue:
Note: 1) This is NOT an approval for an a	additional dwelling unit.	You SHA tors, or k	ALL NO' itchen sir	T add any additior nks, etc. Without s	nal kitchen equipme pecial approvals.	Ok to Issue:
Note: 1) This is NOT an approval for an anot limited to items such as stove 2) This property shall remain a sing	additional dwelling unit. es, microwaves, refrigerate the family dwelling. Any of	You SHA tors, or ka	ALL NO´ itchen sir f use shal	T add any additior nks, etc. Without s	nal kitchen equipme pecial approvals. e permit application	Ok to Issue:
Note: 1) This is NOT an approval for an anot limited to items such as stove 2) This property shall remain a sing approval. 3) This permit is being approved or work.	additional dwelling unit. es, microwaves, refrigerate the family dwelling. Any of	You SHA tors, or k change of tted. An	ALL NO' itchen sir f use shal y deviation	T add any additior nks, etc. Without s	nal kitchen equipme pecial approvals. e permit application	Ok to Issue:
Note: 1) This is NOT an approval for an anot limited to items such as stove 2) This property shall remain a sing approval. 3) This permit is being approved or work.	additional dwelling unit. es, microwaves, refrigerate gle family dwelling. Any of the basis of plans submi	You SHA tors, or k change of tted. An	ALL NO' itchen sir f use shal y deviation	T add any additior nks, etc. Without s Il require a separat ons shall require a	nal kitchen equipme pecial approvals. e permit application separate approval	Ok to Issue:
Note: 1) This is NOT an approval for an anot limited to items such as stove 2) This property shall remain a sing approval. 3) This permit is being approved or work. Dept: Building Status:	additional dwelling unit. es, microwaves, refrigerately family dwelling. Any of the basis of plans submit the basis of pla	You SHA tors, or k change of tted. An	ALL NO itchen sir f use shal y deviation viewer:	T add any additior nks, etc. Without s Il require a separat ons shall require a	nal kitchen equipme pecial approvals. e permit application separate approval	Ok to Issue: In the including, but the including, but the infor review and the before starting that Including that Including the

PERMIT ISSUED

OCT **2** 6 2009

City of Portland



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

007 2 0 0000

OCT 2 6 2009

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	Use of Building Date 10-1-09
Name and address of owner of appliance	Use of Building Date 10-1-09 Beverly St. Portland
Installer's name and address, Robert S. Dorr 17 Milliken Kd. Scarbonough My.	JR. + x M au 04074 Telephone 415-3375
Location of appliance:	Type of Chimney:
■ Basement □ Floor	☐ Masonry Lined
☐ Attic ☐ Roof	Factory built
Type of Fuel:	☐ Metal
🗹 Gas 🗅 Oil 🗅 Solid	Factory Built U.L. Listing #
Maria INI	
Appliance Name: / Loan's / Muscot	Direct Vent
U.L. Approved 🗹 Yes □ No	Type Aluminium UL# RECEIVED
Will appliance be installed in accordance with the manufacture's	Type of Fuel Tank
installation instructions? Ves	OCT 5 200
	☑ Gas
IF NO Explain:	Dept. of Building Inspections City of Portland Maine
	Size of Tank City of Portland Maine
The Type of License of Installer:	Number of Tanks
□ Master Plumber # 08566	
□ Solid Fuel #	Distance from Tank to Center of Flame feet.
□ Oil #	Cost of Work: \$ 6000.00
Other	Permit Fee: \$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
Approved	Approved with Conditions
Fire:	☐ See attached letter or requirement
Ele.:	•
Bldg.:	
1.1 (kd)	Inspector's Signature Date Approved
Signature of Installer Sold Sold Sold	

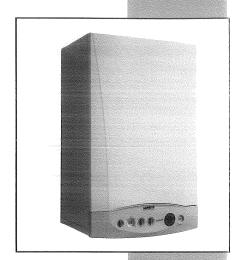
Mascot

Gas-Fired Residential and Commercial Wall-Mounted Boiler

Easy Installation,

96% Efficiency,

Fully Condensing







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).

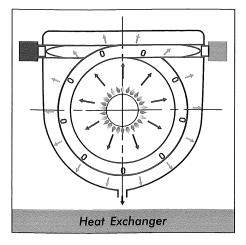
The **Mascot** 167 & 242 MBTU boilers (HT 1.450 & HT 1.650) are packaged differently for potential commercial applications using either single or multiple boiler installations. This means that customers may order single or multiple piping assemblies with the Mascot HT 1.450 or HT 1.650.

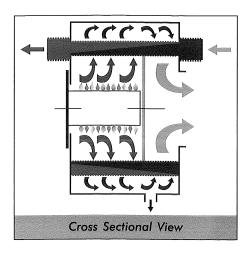
Residential Boilers are Fully Packaged

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 "quickremove" 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

				RESIDENTIAL LITE 1 000				COMMERCIAL			
DESCRIPTION			HT 330		HT 1.330		HT 1.450		HT 1.650		
Fuel				NG / LP		NG / LI		NG / L		NG / LP	
Input, max fire		BTU/h		126,376	37.0	126,376	37.0	167,262	49.0	241,600	70.8
Output, maximum fi		BTU/h		112,601	33.0	112,601	33.0	153,618	45.0	221,789	65.0
DHW Outlet Water	'	°F	°C	140	60	n/a		n/a		n/a 	
Max. DHW flow rate	e (dt@80°F)	gpm	lm	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	e Setting	psi	kPa	30	207	30	207	30	207	30	207
Supply Flow Connec	tion	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 Exc	changer			stainless stainless				stainless stainless			
Service Clearances	top	in	cm	9	23	9	23	9	23	900	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		٧	120		120		120		120	
	frequenc	:y	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.

Specifications

DESCRIPTION			RESIDENTIAL			TIAL HT 1.330		COM/ HT 1.450		MERCIAL 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 f	ire	BTU/	h <i>kW</i>	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	Programme - proceeding
Max. DHW flow rate	e (dt@80°F)	gpm	lm	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	9	psi	kPa	116	800	n/a		n/a		n/a	
Pressure Relief Valve	e 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 Ex	changer			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		٧	120	a Bilanda series esc.	120		120		120	
	frequenc	у	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	
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

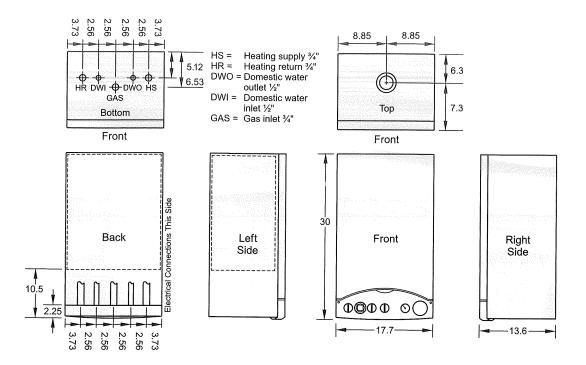
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Mascot Advantages

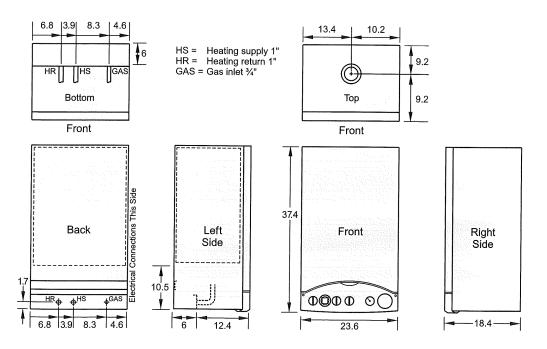
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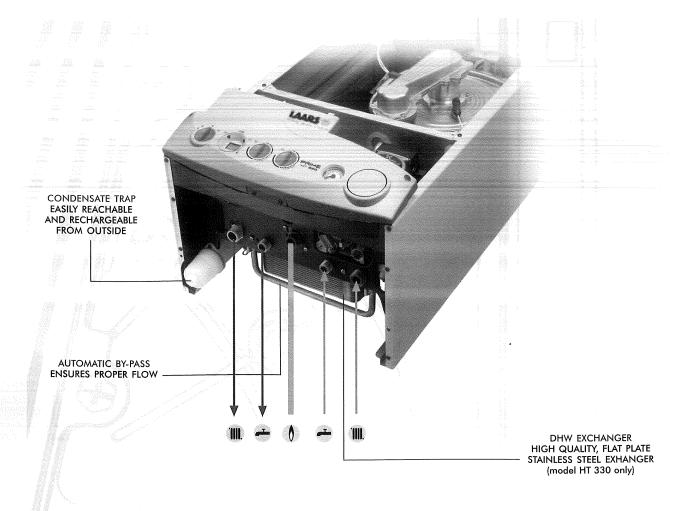
Dimensions

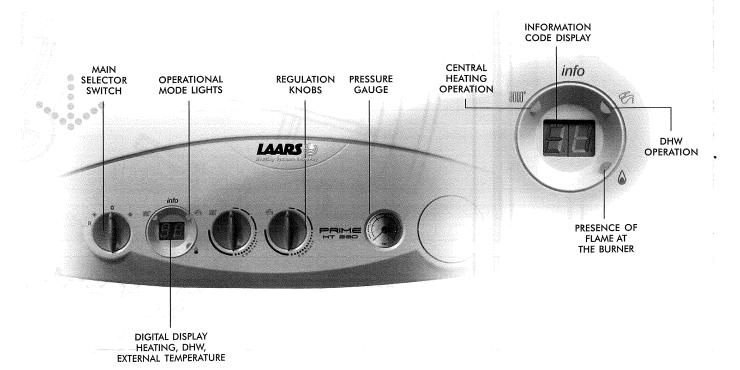
Sizes 330 and 1.330



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.

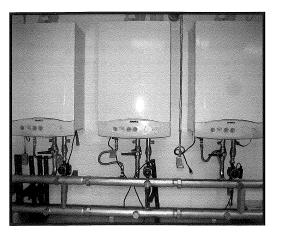
Mascot residential boilers are designed with a built-in expansion tank, air elimination vents, and circulator. This will save contractors hundreds of dollars in material and labor.



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.















20 Industrial Way, Rochester, NH 03867 • 603.335.6300 • Fax 603.335.3355 1355 Kuehner Drive, Simi Valley, CA 93063 • 800.900.9276 • Fax 800.559.1583 (Sales, Service) Heating Systems Company 1869 Sismet Road, Mississauga, Ontario, Canada L4W 1W8 • 905.238.0100 • Fax 905.366.0130 Litho in U.S.A. © Laars Heating Systems 0801 Document 1200B