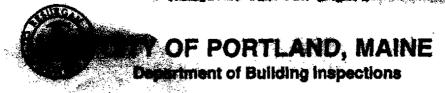
City of Portland, Maine - Building or Use Permit Application Per					Issue Date	:	CBL:	
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-871			6 10-0780			340 D00	03001	
	Owner Name:		Owner Address:		Phone:			
_ 	MULKERN MICHAEL E		1445 FOREST A					
Business Name:	Contractor Name:		Contractor Address	=	<u> </u>	Phone		
	Wayne Halls Heating Service		PO box 6544 Sca	arborough		20788303		
Lessee/Buyer's Name	Phone:			Permit Type:			Zone: 7	
		<u></u>		HVAC			K~	
	Proposed Use:		-	Permit Fee:			CEO District:	7
_	2 Unit Resider		2 Peerles	\$100.00			5	
	ECT boilers in	basement		FIRE DEPT:	Д Арргочед	INSPEC	TION:	
	1				Denied	Use Gro	up:/2 \	Type:
legAluse - 2 res	3. don t	ad N	al.	1/1	1	ما		m3
Proposed Brainet December 1)(00-03	(ACP	' VY		4	1	TION: up: R·3	
Proposed Project Description: install 2 Peerles ECT boilers in baseme	ant.							
install 21 ceries ECT bollers in baseme	ait			Signature: PEDESTRIAN ACT	TVITIES DIST	Signatur		
				Action: Appro	oved	proved w/C	Conditions	Denied
				Signature:			Date:	
Permit Taken By: Date App	lied For:			Zoning	g Approva	al		
Idobson 07/01/	2010						_ ,	
This permit application does not p.	reclude the	Special Z	one or Revie	ws Zoni	ing Appeal		Historic Prese	ervation
Applicant(s) from meeting applicable State and Federal Rules.		Shoreland		☐ Variano	☐ Variance		Not in District or Landmark	
2. Building permits do not include pl septic or electrical work.	51 1 5,		I	☐ Miscellaneous			Does Not Require Review	
 Building permits are void if work is not started within six (6) months of the date of issuance. 		☐ Flood Zone ☐ Subdivision		Conditi	Conditional Use		Requires Revi	icw
False information may invalidate a building permit and stop all work				☐ Interpre	☐ Interpretation		Approved	
		Site Plan	n	☐ Approv	ved		Approved w/C	Conditions
PERMIT ISSUED	·	Maj M	inor MM	☐ Denied			_ Denie	
		Date:	7.1	Sate:		Dat	te:	
JUL - 7 2010			17-06-63	<u>~</u>				
	_	0	111					
City of Portland			THI	10				
City of a critical		,	* 11	•				
		CERT	rif ic atio	ON				
I hereby certify that I am the owner of roll have been authorized by the owner to be jurisdiction. In addition, if a permit for shall have the authority to enter all areas such permit.	make this appli work described	cation as his d in the appl	s authorized ication is is	l agent and I agree sued, I certify that	to conform the code of	to all app ficial's au	plicable laws on the control of the	of this esentative
SIGNATURE OF ARRESTANT			ADDRIGG		Darm	-	miros	
SIGNATURE OF APPLICANT			ADDRESS	•	DATE		PHO	NE

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE



Receipt

٠	
	7.1 20 /0
Received from	1445 toest Aux
Legation of Work	1445 HOLST AJE
Sest of Construction	\$Building Fee:
	\$ Site Fee:
	Certificate of Occupancy Fee:
	Total:
Staticling (IL) Plun Other / UA	nbing (I5) Electrical (I2) Site Plan (U2)
CBL: 340-1	<u>)-3</u>
Check #:652	Total Collected s /00
, , , , , , , , , , , , , , , , , , , ,	to be started until permit issued. p original receipt for your records.
•	i

Taken by:

WHITE - Applicant's Copy YELLOW - Office Copy PINK - Permit Copy

City of Portland, Maine - Building or Use Permit			Permit No:	Date Applied For:	CBL	<i>.</i> :	
389 Congress Street, 04101	l Tel: (207) 874-8703, Fax: (2	207) 874-8716	10-0780	07/01/2010	34	10 D003001	
Location of Construction:	Owner Name:		Owner Address:		Phon	ie:	
1445 FOREST AVE	MULKERN MICHAEI	LE	1445 FOREST AVE		Ĭ		
Business Name:	Contractor Name:		Contractor Address:		Phon	e	
	Wayne Halls Heating S	Service	PO box 6544 Scarborough		(20	7) 883-0307	
Lessee/Buyer's Name	Phone:			Permit Type:			
			HVAC				
Proposed Use:		Propos	d Project Description				
2 Unit Residential - install 2	Peerles ECT boilers in basement	instal	2 Peerles ECT bo	ilers in basement			
Dept: Zoning St	tatus: Approved with Conditions	s Reviewer	: Marge Schmuck	al Approval	 Date:	07/01/2010	
Note:					Ok t	o Issue: 🗸	
1 ·	for an additional dwelling unit. Yas stoves, microwaves, refrigerate		_		ent inc	luding, but	
2) This property shall remai approval.	in a two family dwelling. Any cha	ange of use sha	ll require a separat	e permit application	for rev	riew and	
3) This permit is being appr work.	oved on the basis of plans submit	tted. Any devi	ations shall require	a separate approval	before	starting that	
Dept: Building So	tatus: Approved with Conditions	s Reviewer	: Tammy Munsor	Approval l	Date:	07/07/2010	
Note: after the fact permit	• •		•	F		o Issue.	

1) Installation shall comply with 2003 International Mechanical Code and State of Maine Oil and Solid Fuel Board Laws and Rules

PERMIT ISSUED

JUL - 7 2010

City of Portland





APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

340D3

PERMIT ISSUED

JUL - 7 2010

City of Portland

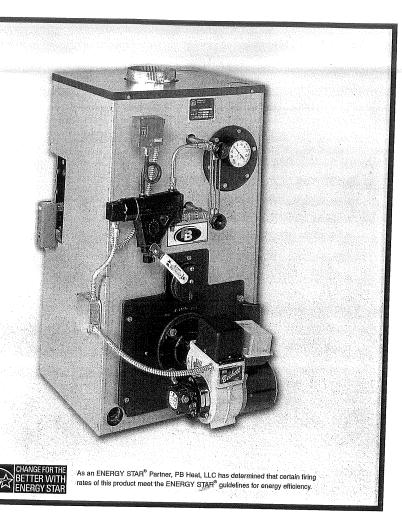
To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

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 1445 FOREST AVC.	Use of Building 2- Fanicy Date 6-29-10
Name and address of owner of appliance MIKE MU So, PortLand me.	
Installer's name and address Walve HALL'S PID, OK 6544 Searborough M.	Heating Secvice
Location of appnance: Basement	Type of Chimney: Masonry Lined
Attic Roof	Factory built STAINLESS LINER TO SE INSTALLED by J-5-10 Metal PICKETT'S Chimney 7-5-10
Type of Fuel: Gas Oil Solid	Factory Built U.L. Listing #
Appliance Name: 2- PECTLESS ECT U.L. Approved Yes O No	☐ Direct Vent Type UL#
Will appliance be installed in accordance with the manufacture's installation instructions? Yes No	Type of Fuel Tank RECEIVED Oil Gas JUL - 1 2010
IF NO Explain:	Size of Tank City of Fortland Maine
The Type of License of Installer: Master Plumber #	Number of Tanks
Solid Fuel #	Distance from Tank to Center of Flame 6+ feet.
Gas #	Cost of Work: \$ 8,000.000
Approved	Approved with Conditions
Fire:	See attached letter or requirement
Bldg.:	Inspector's Signature Date Approved
Signature of Installer	ink - Applicant's Gold - Assessor's Copy

Series EC/ECT

Off Boilers



Installation,
Operation &
Maintenance
Manual



PeerlessBoilers.com

Series EC/ECT

Oil

Boilers

Installation, Operation & Maintenance Manual

TO THE INSTALLER:

This manual is the property of the owner and must be affixed near the boiler for future reference.

TO THE OWNER:

This boiler should be inspected annually by a Qualified Service Agency.



PB HEAT, LLC

P.O. BOX 447 • NEW BERLINVILLE, PA 19545-0447

Service Information

Name:		
Address:		
-		
Phone:		









HI Division of gama

ΔSME

This boiler must be installed by a qualified contractor.

The boiler warranty can be voided if the boiler is not installed, maintained and serviced correctly.

The equipment shall be installed in accordance with those installation regulations in force in the local area where the installation is to be made, including the current edition of NFPA-31, Standard for the Installation of Oil-Burning Equipment, and in Canada, CSA B139, Installation Code for Oil Burner Equipment. These shall be carefully followed in all cases. Authorities having jurisdiction shall be consulted before installations are made.

CAUTION

Never burn garbage or paper in the unit, and never leave combustible material around it.

CAUTION

Do not tamper with boiler controls.

A. CLEARANCES

Table 1.1: Clearances from Jacket and Vent System

Required from Jacket to Combustible Construction		Recommended From Jacket for Accessibility and Mounting Controls		
Тор	5"*	24" if Left Side Clearance less than 24" (to clean flueways from top).		
Front	16"*	16" from jacket due to burner.		
Left 2"*	24" if Top Clearance less than 24" (to clean flueways from left side).			
	24" on steam with tankless coil.			
		9" in area of boiler service switch and junction box.		
Right	2"*	12" due to burner swing radius*.		
Rear	2"*	9" for mounting relief valve.		
Vent Pipe (Single Wall) - 9" to Combustible Construction. Clearance may be reduced using methods in NFPA 31.				

Vent Pipe (Double Wall) - See Manufacturer's Instructions.

Unit may be installed on combustible flooring, provided the boiler is not set on carpet and a metal drip pan is placed under the appliance.

Unit may be installed in a closet with the above clearances. See also Section B, Air for Combustion and Ventilation.

B. AIR FOR COMBUSTION AND VENTILATION

- 1. Be certain adequate facilities are available to provide air for satisfactory combustion and ventilation.
- 2. Appliances Located in Unconfined Spaces.
 - a. For installation in unconfined spaces with conventional construction and larger areas such as basements, the supply of air for combustion and ventilation can usually be considered adequate.
- 3. Appliances Located in Confined Spaces.
 - a. All air from inside the building: Provide two permanent openings communicating directly with an additional room. If all air for combustion and ventilation is to come from within the building: two openings, one near the ceiling and one near the floor of the boiler room shall be provided with the minimum free area of each opening equal to 140 sq. in. per gallon of oil burned.
 - b. If all air for combustion and ventilation is to come from outside the building: two openings, one near the ceiling and one near the floor of the boiler room shall be provided with the minimum free area of each opening equal to 35 sq. in. per gallon of oil burned.

If ducts are used to convey the air, areas of 35 sq. in. per gallon of oil burned for vertical ducts or 70 sq. in. per gallon of oil burned for horizontal ducts are to be provided. Ducts shall have the same area as the free area of the openings to which they are connected.

C. CHIMNEY / VENT AND DRAFT CONTROL

CAUTION

An oil-fired unit shall be connected to a flue having sufficient draft at all times, to assure safe proper operation of the unit.

- 1. Draft Requirement Minimum draft required in the vent system is -.03" to -.05" W.C. depending on boiler model, see Table 7.1 (Section 7). This draft is necessary to provide the necessary draft over fire of -.01" to -.02" W.C. See discussion in paragraph $5\,$ below regarding draft.
- 2. Use barometric provided to control draft. Follow manufacturer's instructions to locate and adjust the control.
- 3. Inspect the existing chimney or vent system. Make sure it is in good condition. Inspect chimney liner and repair or replace if necessary.
- 4. The vent system and installation must be in accordance with the current edition of the American National Standard ANSI/NFPA 211, "Chimneys. Fireplaces, Vents, and Solid Fuel Burning Appliances," or applicable provisions of the local building codes. See Table 7.1 (Section 7) for typical chimney size. If the vent system is not sized properly, the burner may not operate properly. This can cause poor combustion, sooting and odors to occur.
- 5. Background Information Regarding Draft:

Modern boilers operate with higher efficiencies than older boilers. Smaller flueways, as well as bars, pins and fins are designed into modern boilers to transfer as much heat as possible from the hot gases to the water or steam and prevent heat loss up the chimney. However, these design features result in higher pressure, or draft loss, in the boiler.

This draft loss must be taken into account when installing an oil boiler into a new or old chimney. New chimneys are less likely to have poor draft. However, they must have sufficient draft to support combustion. A -.06" draft is desirable and preferred. Older chimneys may require a replacement liner to have them perform well enough to support combustion.

For Example:

Report for the first of the control					
Old Installation	New Installation	Comments			
04"	04"	No change, but older chimneys (especially unlined ones) have leaks which reduce draft.			
+.01"	+.04"	Required for mandated efficiency increases.			
03"	0.00"	The old installation would have had a higher temperature in the chimney [as high as 800 degrees vs. 400 degrees F], which would increase the draft.			
	04" +.01"	Installation Installation			

The above readings are "cold" readings (before the boiler and chimney are heated up).

Note also that the higher the firing rate on a unit which has multiple firing rates, the higher the draft required. For example, increasing the firing rate 1/4 gallon may increase the draft loss in a unit by approximately +.01".

D. INSTALLATION SURVEY

For new and existing installations, a Water Installation Survey or a Steam Installation Survey is available from P.B. Heat, LLC. The surveys will provide information on how the boiler works with your specific system and will provide an overview of boiler system operation in general.

You can also use this survey to locate system problems which will have to be corrected. To obtain copies of these Surveys, contact your PB Heat representative or download it from PeerlessBoilers.com.

E. PLANNING THE LAYOUT

Prepare sketches and notes of the layout of the installation. Include boiler location, venting system, existing piping and wiring. Show existing equipment that may interfere with installation of new equipment.

^{*} Consider also vent pipe clearance, including distance from edge of flue outlet to combustible construction (as applicable).