DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING PERMIT

This is to certify that ANNA BELLUCCI

Located At 704 WASHINGTON

Job ID: 2011-05-1095-HVAC

CBL: 168 - -C - 004 - 001 - - - - -

has permission to Instal a Pensotti Gas Boiler in Basement

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues 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

5/24/11

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY

PENALTY FOR REMOVING THIS CARD

dcto elec + SCDN
MP

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (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.**

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 OCCU0PIED.

PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • *www.portlandmaine.gov*

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-05-1095-HVAC **Located At:** 704 WASHINGTON **CBL:** 168 - - C - 004 - 001 - - - - -

Conditions of Approval:

Zoning

1. This property shall remain a two family dwelling. Any change of use shall require a separate permit application for review and approval.

Building

The installation must comply with the State of Maine gas regulations.

City of Portland, Maine - Building or Use Permit Application

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

Job No:	Date Applied:	CBL:	
2011-05-1095-HVAC	5/12/2011	168 - - C - 004 - 001 - - - - -	
Location of Construction: 704 WASHINGTON AVE	Owner Name: ANNA BELLUCCI	Owner Address: 704 WASHINGTON AVE PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: Breggy Oil	Contractor Address: 84 Congress ST PORTLAND ME 04101	Phone: (207) 772-4631
Lessee/Buyer's Name:	Phone:	Permit Type: BLDG - Building	Zone: R-5
Past Use: Two family	Proposed Use: Two family - HVAC	Cost of Work: 8000.00	CEO District:
		Fire Dept: ___ Approved ___ Denied ___ N/A Signature:	Inspection: Use Group: V Type: HVAC Gas Regs Signature:
Proposed Project Description: 704 Washington - HVAC		Pedestrian Activities District (P.A.D.)	
Permit Taken By:			

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building Permits do not include plumbing, septic or electrial work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
___ Shoreland	___ Variance	✓ Not in Dist or Landmark
___ Wetlands	___ Miscellaneous	___ Does not Require Review
___ Flood Zone	___ Conditional Use	___ Requires Review
___ Subdivision	___ Interpretation	___ Approved
___ Site Plan	___ Approved	___ Approved w/Conditions
___ Maj ___ Min ___ MM	___ Denied	___ Denied
Date: Ok w/ condition 5/13/11	Date:	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 appication 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 PHON

FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT
HEATING OR POWER EQUIPMENT

XX's ✓

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 168-C-4 Use of Building _____ Date 5.12.11

Name and address of owner of appliance ANNA BELLUCCI

704 WASHINGTON AVE.

Installer's name and address BREGGY OIL & PROPANE

84 Congress ST. PORTLAND Telephone 772-4631

Location of appliance:

- ☑ Basement
- ☐ Floor
- ☐ Attic
- ☐ Roof

Type of Fuel:

- ☑ Gas
- ☐ Oil
- ☐ Solid

Appliance Name: Pensotti

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 4546
- ☐ Other _____

Type of Chimney:

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

Type of Fuel Tank

- ☐ Oil
- ☒ Gas

RECEIVED MAY 12 2011 Dept. of Building Inspections City of Portland Maine

Size of Tank @ 100

Number of Tanks 2

Distance from Tank to Center of Flame 30 **feet.**

Cost of Work: $ 7460.00

Permit Fee: $ 100

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

☐ See attached letter or requirement

_____ Inspector's Signature

_____ Date Approved

Signature of Installer George Cochran

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

Installation Check List

PENSOTTI NORTH AMERICA

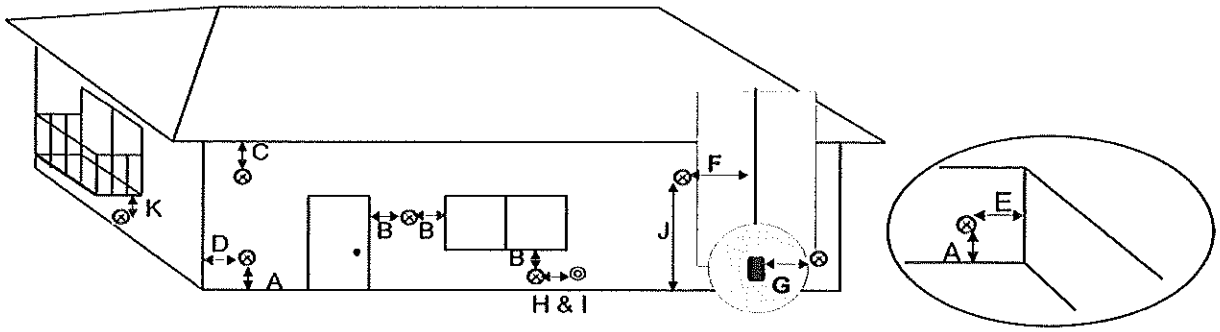
Before the initial start-up, check the following items:

Check List Verification	
Company	
Technician	
Date	

- ❑Boiler Position
- ❑Boiler clearances
- ❑Venting system: installed correctly and secured
- ❑Gas piping: properly sized, installed and leak checked
- ❑Condensate piping: installed according to applicable codes
- ❑Fill condensate trap
- ❑Relief valve(s) piped down
- ❑Is Ventilation air required, if so, is it installed and properly sized
- ❑Boiler and system filled with water and purged of air. Fill pressure 14psi (1 Bar)
- ❑Purge air from circulator by loosening rear bearing plug
- ❑Remove circulator rear bearing plug and using slotted screwdriver check that circulator motor turns freely, reinstall plug
- ❑Wye strainer installed in return piping (systems with old piping)
- ❑Internal circulator air vent opened (red cap in up position)
- ❑Air bleed from top of heat exchanger
- ❑Check electrical connections for proper voltage, polarity, and grounding
- ❑Check unit for proper gas type
- ❑Convert to the proper gas if required (refer to instruction manual, perimeter 02; perimeters 02, 17, 18, 19 and 20 on PCH18 & PCI18/8)

Upon start-up, check the following items:

- ❑Start boiler and check for proper gas pressure setting on high fire (refer to instruction manual and type of gas)
- ❑Check circulator operation adjust to high speed (3)
- ❑Check CO2 while burner is running on high fire, adjust V screw to achieve the correct value if necessary (refer to instruction manual)
- ❑Check general operation
- ❑Check boiler ignition safety by interrupting the gas supply while boiler operates. Wait for E01 error code on display. Turn OFF then ON to reset.
- ❑Replace testing port plugs on vent pipe
- ❑Install front cover ands secure
- ❑Leave instruction manuals in the vicinity of the boiler
- ❑CO detector installed



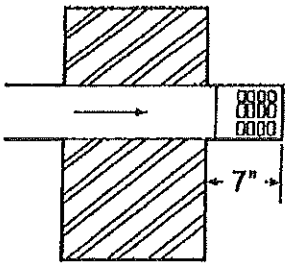
Direct Vent Termination Minimum Clearances	
A = 12"	Clearance above grade, snowline, deck, porch or balcony
B = 12"	Clearance to window or door that may be opened
C = 24"	Vertical clearance to ventilated and unventilated soffit within a 2' distance horizontally from center line of DV termination
D = 12"	Minimum distance to outside corner
E = 18"	Minimum distance to inside corner, included walls and fences.
F = 48"	Not to be installed above a gas meter/regulator within F from the center line of the meter/regulator
G = 48"	Minimum clearance to service regulator vent outlet, gas meter or electrical meter
H = 12"	Clearance to non-mechanical inlet air opening into the building
I = 36"	Clearance to a mechanical air inlet into the building
J = 84"	Minimum distance above a paved sidewalk or driveway located on public property. If terminal is located between two single family residences with a sidewalk or driveway between; the same 84" clearance applies.
K = 24"	Minimum clearance beneath porch, deck, veranda or balcony, only if the area below is completely open on at least two sides.

State and local codes may require different clearances, consult the local authority having jurisdiction in each area for details.

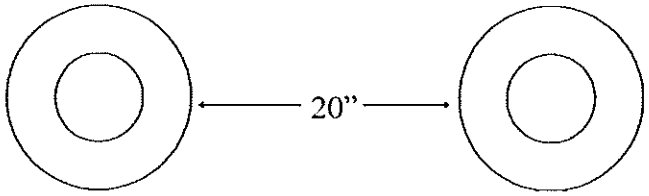
The vent hood must be installed on the leeward side of the structure. Avoid installing the vent hood on the side of the structure receiving normal prevailing winds.

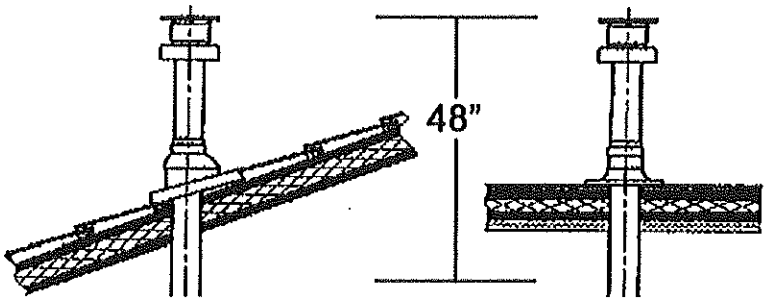
The termination shall be located so that flue gasses, or condensate from the flues gasses, are not directed as to jeopardize people, building materials, building construction, siding or soffits. Flue gasses from the termination shall not be allowed to enter any type of structure.

-Horizontal vent termination: must terminate a minimum of 7" from the face of the outside wall in which it is installed.



-Minimum distance between any two horizontal concentric vent terminations is 20" measured from the inner edge of each termination.





-Pitched Vertical Termination

-Flat Vertical Termination

2. TECHNICAL CHARACTERISTICS

2.1 Technical data

Model		PCI 18/8
CE Certification	n°	0694BN3485
Appliance Type		B23p-B33-C13-C33-C43-C53-C63-C83-C93
Appliance Category		II2H3B/P
Heat Input max	kW - BTU/hr	18 – 61419
Heat Input max - D.H.W. production working	kW - BTU/hr	23.5 – 80185
Heat Input min	kW - BTU/hr	(G 20) 4 – 13.649 / (G 31) 5,50 – 18.767
Heat Output max - 122/86°F	kW - BTU/hr	19,26 – 65.718
Heat Output max - 176/140°F	kW - BTU/hr	17,69 – 60.374
Heat Output max - D.H.W. production working - 176/140°F	kW - BTU/hr	23.10 – 78822
Heat Output min - 176/140°F	kW - BTU/hr	3,90 – 13.294
Efficiency 100% (full load 122/86°F)	%	96
Efficiency 30% (partial load 122/86°F)	%	97
Efficiency 100% (full load 176/140°F)	%	87.7
Efficiency 30% (partial load176/140°F)	%	88.8
GAS DIRECTIVE 92/42/ECC - Efficiency marking	stars	4
Sedbuk	band	A
NOx	class	5
Central Heating circuit		
Central Heating water temperature setting (min-max)	°C – °F	30-80 / 25-40 – 86-176 / 77-104
Max. heating working temperature	°C – °F	80 – 176
Expansion vessel capacity	litres - gal	8 - 2,11
Max. working pressure (heating)	bar - psi	2.1 - 30
Min. working pressure (heating)	bar - psi	0.3 - 4.29
Domestic Hot Water circuit		
D.H.W. temperature setting (min-max)	°C – °F	35-70 – 95-160
Max. Hot water working pressure	bar - psi	6 - 86
Min. Hot water working pressure	bar - psi	0.5 - 7.16
D.H.W. 40 °C water supply (DT 30°C) for 1 hour	litres - gal	696 – 183,9
Max D.H.W. 40 °C water supply (DT 30°C) first 10 minutes	litres - gal	120 – 31,7
Storage cylinder capacity	litres - gal	8 - 2,11
Dimensions (Boiler casing size)		
Width	in	17.7
Height	in	31.1
Depth	in	13
Weight (net)	lb	101.41
Hydraulic connections		
Central Heating Flow connection	NPT	3/4"
Central heating Return connection	NPT	3/4"
Cold water mains connection	NPT	1/2"
D. Hot water connection	NPT	1/2"
Gas connection	NPT	1/2"
Flue systems		
Horizontal-Concentric flue system	Ø mm - in	60/100 - 2.4/4
Max. Flue length	m - ft	5 - 16.4
Twin pipe flue system	Ø mm - in	80/80 - 3.15/3.15
Max. Flue length (from terminal to terminal)	m - ft	50 -164
Twin pipe flue system	Ø mm - in	60/60 - 2.4/2.4
Max. Flue length (from terminal to terminal)	m - ft	30 - 98
Vertical-Concentric flue system	Ø mm - in	60/100 - 2.4/4
Max. Flue length	m - ft	5 - 16.4
Gas Supply		
Natural gas G 20		
Inlet pressure	mbar - psi	20 - 0.29
Gas consumption	m^3/h - ft^3/h	1.91 – 67,44
Propane G31		
Inlet pressure	mbar - psi	37 - 0.53
Gas consumption	kg/h - ft^3/h	1.40 – 25.71
Electrical specifications		
Power supply	V/Hz	120/60
Electrical power consumption	W	190
Electrical protection	IP	X4D