DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND
BUILDING PERMIT

This is to certify that

WAKEFIELD RANDY A & PAMELA A JTS/Mcdonald, Mike Heating Service LLC

Located at

14 RUNNELLS ST

PERMIT ID: 2013-00050

CBL: 176 G001001

has permission to **HVAC: Install Peerless Combi boiler**

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 clsoed-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.

01/09/13

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:	Date Applied For:	CBL:
201300050	01/08/2013	176 G001001

Location of Construction:	Owner Name:	Owner Address:	Phone:
14 RUNNELLS ST	WAKEFIELD RANDY A & PAME	14 RUNNELLS ST	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Mcdonald, Mike Heating Service LL	160 Fellow Street South Portland	(207) 318-7079
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		HVAC	

Proposed Use:	Proposed Project Description:
Single Family	HVAC: Install Peerless Combi boiler

Dept: Zoning **Status:** Approved **Reviewer:** Ann Machado **Approval Date:** 01/09/2013

Note: **Ok to Issue:** ☑

Dept: Building **Status:** Approved w/Conditions **Reviewer:** Jon Rioux **Approval Date:** 01/09/2013

Note: **Ok to Issue:** ☑

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.

City of Portland, Maine - Building or Use Permit Application

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

Permit No:	Issue Date:	CBL:
2013-00050		176 G001001

Location of Construction:	Owner Name:	Owner Address:	Phone:
14 RUNNELLS ST	WAKEFIELD RANDY A & PAMELA A JTS	14 RUNNELLS ST PORTLAND, ME 04103	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Mcdonald, Mike Heating Service LLC	160 Fellow Street South Portland ME 04106	(207) 318-7079
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		HVAC	R5
Past Use:	**Proposed Use:**	**Permit Fee:** / **Cost of Work:**	**CEO District:**
Single Family	Single Family	$110.00 / $9,000.00	7

FIRE DEPT: ☐ Approved ☐ Denied ☑ N/A

Signature:

INSPECTION: Use Group: Type: HVAC

ME Gas Regs (MUDEC)

Signature:

Proposed Project Description:
HVAC: Install Peerless Combi boiler

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
bjs	01/08/2013

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 electrical work.
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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: OK 1/9/13 AKH	Date:	Date: AKH

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

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 14 Runnells St Portland 176-G-001 Use of Building Home Owner Date 10/9/12

Name and address of owner of appliance Randy Wakefield 14 Runnells St Portland, ME

Installer's name and address Mike McDonald Heating Service LLC 160 Fellows St So. Portland, ME. 04106 Telephone 318-7079

Location of appliance:

- ☒ Basement
- ☐ Floor
- ☐ Attic
- ☐ Roof

Type of Fuel:

- ☒ Gas
- ☐ Oil
- ☐ Solid

Appliance Name: Peerless Combi

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 5249
- ☐ 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
JAN DEC 08 2013
Dept. of Building Inspections
City of Portland Maine

Size of Tank _____

Number of Tanks _____

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

Cost of Work: $ ~~$606.86~~ 9,000

Permit Fee: $ 110.00

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

☐ See attached letter or requirement

_____ Inspector's Signature

_____ Date Approved

Signature of Installer Michael W. McDonald

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

From: <mikemcdonaldheating@maine.rr.com>
To: <bjs@portlandmaine.gov>
Date: 1/8/2013 3:30 PM
Subject: Heating Permit info for 14 Runnells St. Portland
Attachments: combi 160 cover.jpg; combi page 15.jpg; combi page 28.jpg; combi page 30.jpg; Wakefield.jpg

Hi Brad, Here is hopefully all the info you need for Randy Wakefield, address 14 Runnells St Portland. There should be 5 attachments. My payment info is [redacted] on back [redacted] If you have any questions please call me at 318-7079 Also can you send a confirmation e-mail that you have gotten this info. Thank you Mike

9 - INSTALLATION - Split venting system

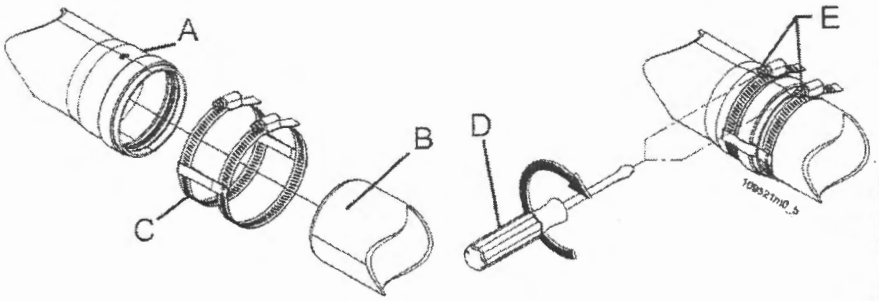


Figure 22 - Connecting extensions and elbows

☞Horizontal vent systems should be as short and straight as possible. The vent system must be both gas tight and watertight. All seams and joints must be joined and sealed in accordance with the vent system manufacturer's instructions.

WARNING!!! Carefully follow the installation steps below for the assembling the split pipe venting system (elbows and extensions), as illustrated in figure 22. it is necessary to properly insert the male side onto the female side and mechanically secure them by using the proper clamps. Improper venting can result in excessive levels of carbon monoxide or a fire, which can result in severe personal injury or death!

☞Mechanically secure each joint with the supplied clamps as shown in figure 22. Follow this procedure:

1. insert the Male side "B" into the Female side "A";
2. use clamp "C" to keep the two pipes together;
3. use screws "E" to tighten the clamp onto both pipes; **DO NOT** force.

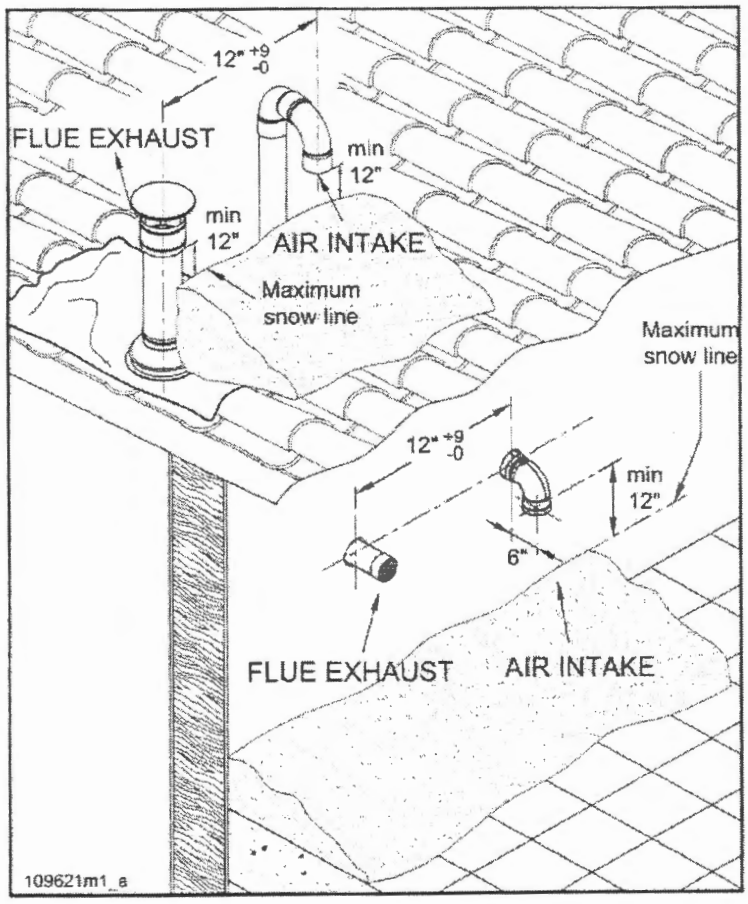
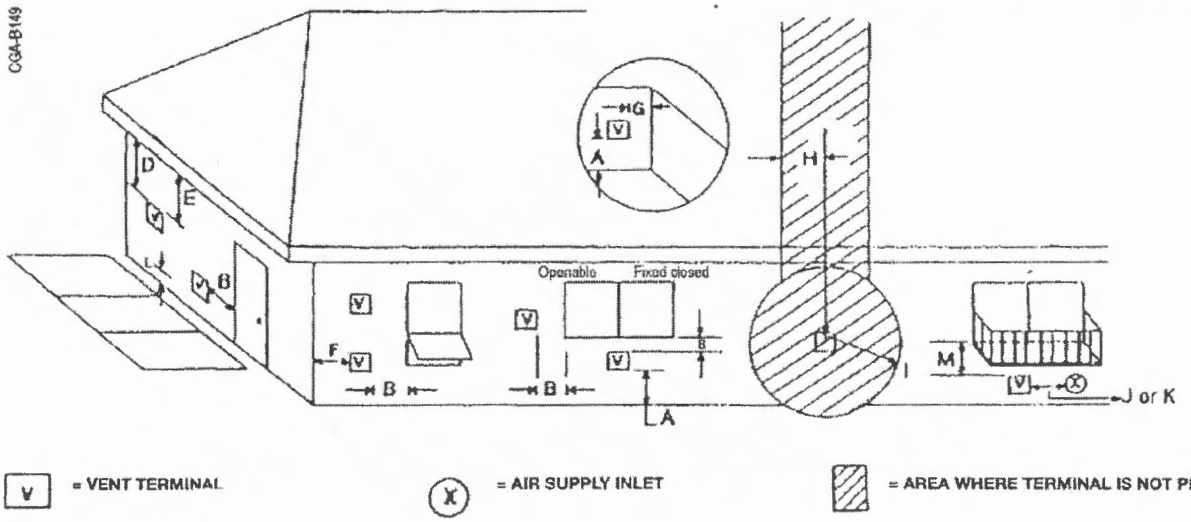


Figure 23 - Clearances of Split system

CAUTION!!! If vent and air intake terminals are located on the same wall or on the same roof,maintain the distances given in figure 23, between the vent and air intake, or flue gas recirculation may occur, causing improper boiler operation!

CAUTION!!! The air intake terminal must be protected from wind by a 90° elbow, see figure 23.

8.4 - Flue terminal location in compliance with CAN/CSA B149



V = VENT TERMINAL

X = AIR SUPPLY INLET

= AREA WHERE TERMINAL IS NOT PERMITTED

Vent Termination Minimum Clearances

A = 12" clearances above grade, veranda, porch, deck or balcony
B = 12" clearances to window or door that may be opened
D = 18" vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (0.6 m) from the centre line of the terminal
E = 18" clearance to unventilated soffit
F = 9" clearance to outside corner
G = 6" clearance to inside corner
H = 4 ft (USA) not to be installed above a gas meter/regulator assembly within H horizontally from the centre line of the regulator
H = 3 ft (CANADA) not to be installed above a gas meter/regulator assembly within H horizontally from the centre line of the regulator
I = 3 ft (USA) clearance to service regulator vent outlet
I = 6 ft (CANADA) clearance to service regulator vent outlet
J = 9" (USA) clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance
J = 12" (CANADA) clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance
K = 3 ft (USA) clearance to a mechanical air supply inlet
K = 6 ft (CANADA) clearance to a mechanical air supply inlet
L = 7 ft clearance above paved side-walk or a paved driveway located on public property (a vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings unless terminated 7ft above sidewalk)
M = 18" clearance under veranda, porch, deck or balcony (only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor

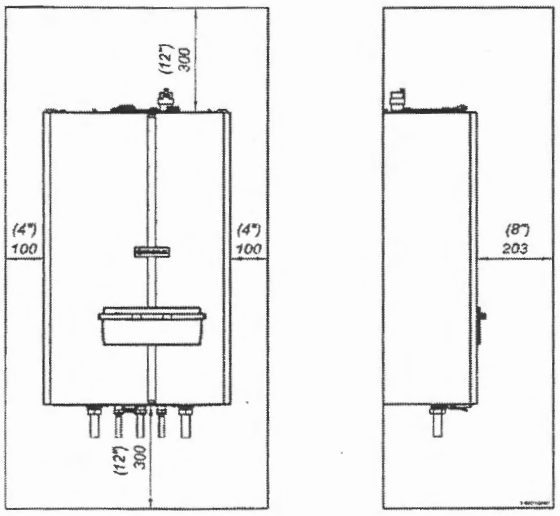
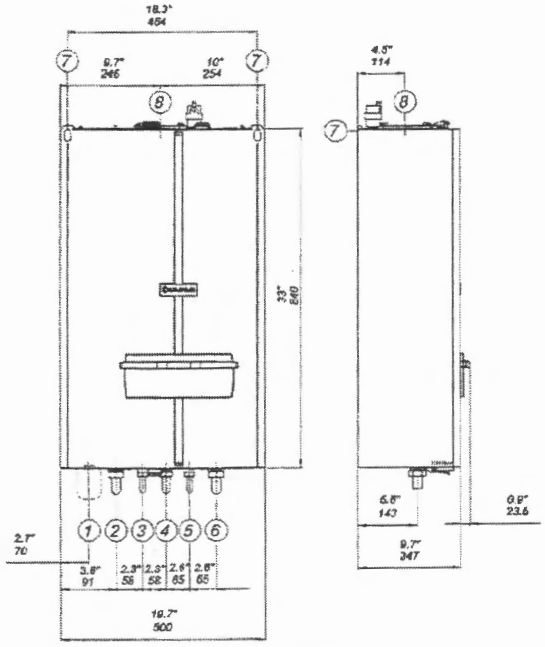


Figure 6 - Recommended minimum clearance distances for proper installation and servicing



1 = Area for power supply cable
2 = Heating supply connection (3/4")
3 = Domestic hot water connection (3/4")
4 = Gas connection (3/4")
5 = Domestic cold water connection (3/4")
6 = heating return connection (3/4")
7 = positions for boiler support
8 = Flue discharge/air intake connection

Figure 7 - Dimensions for the PC160™

5.1 - Clearances for installation and servicing

Figure 6 shows the clearances required for installation and servicing.

NOTE: Service clearances are not mandatory, but are recommended to ensure ease of service should it be required.

5.2 - Clearances from combustible material

This boiler may be installed directly onto a wall of combustible material with the following clearance:

Ceiling:	2 inches (51 mm)
Front:	2 inches (51 mm)
Rear:	0 inches (0 mm)
Sides:	2 inches (51 mm)
Floor:	2 inches (51 mm)

Concentric vent: 0 inches (0 mm)
Split vent (first 12" from the boiler): 1 inch (25 mm)
Split vent (after 12" from the boiler): 0 inches (0 mm)

5.3 - Choosing the installation location

CAUTION!!! The boiler must be installed on a vertical wall constructed to bear its weight or the boiler and building may be damaged.
NOTE: The boiler must never be installed on carpeting.

CAUTION!!! This boiler is not designed for direct outdoor installation. If installed outside of the structure that it supplies hot water too, it must be sheltered so it is protected from rain, wind, sun and frost. NEVER place this boiler in a location that would subject it to temperatures at or near freezing. Failure to properly locate this boiler can result in premature failure voiding the warranty.

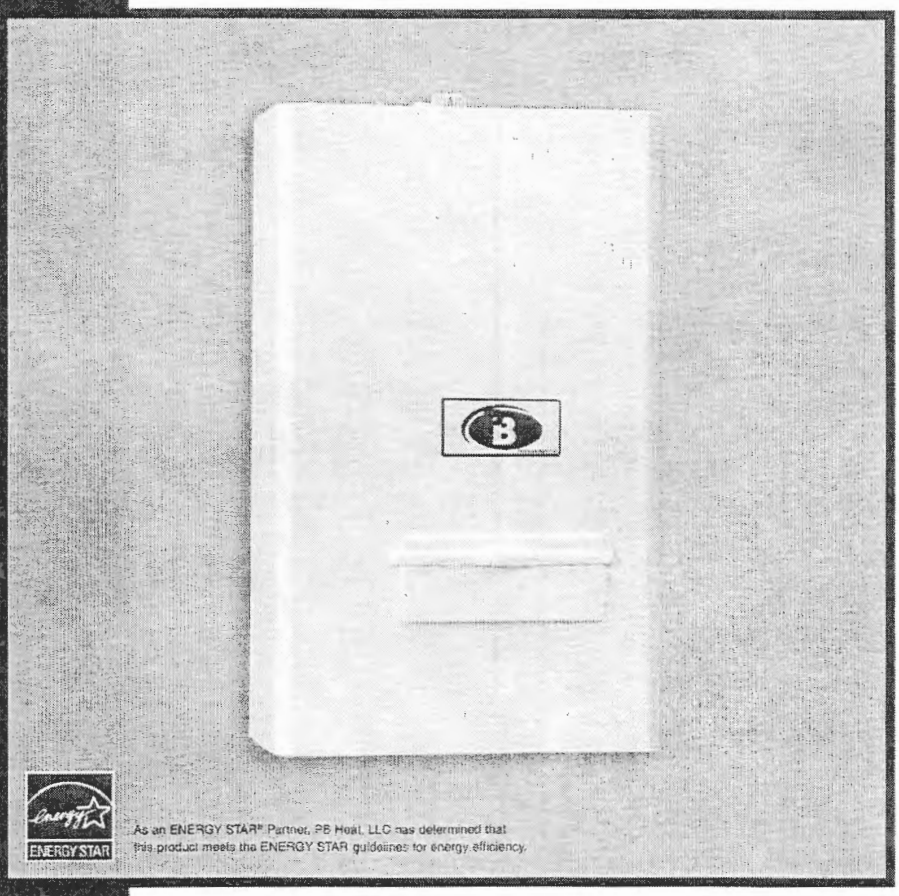
When locating the boiler the following factors must be considered:

- the location of vent/air intake terminals;
- connection to the gas supply;
- connection to the water supply;
- connection to the heating system;
- connection to the domestic hot water system;
- connection to the electrical supply;
- disposal of the condensation produced by the boiler;
- connection to the room thermostat;
- piping of the safety relief valve discharge;
- possible connection of the outdoor temperature sensor;
- possible connection of an indirect storage tank, see section 7.1.

COPY

Peerless® Combi 160™

Gas Boiler



As an ENERGY STAR® Partner, PB Heat, LLC has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Installation, Operation & Maintenance Manual

PeerlessBoilers.com