

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that Justin Fletcher

Located At 24 CARLYLE RD

Job ID: 2012-02-3336-HVAC

CBL: 140- C-008-001

has permission to Install Rinnai Biasi  
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
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\_\_\_\_\_  
**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

## BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: [buildinginspections@portlandmaine.gov](mailto: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.

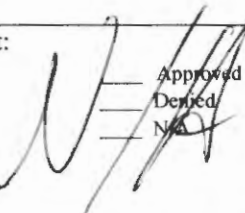

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may 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 OCCUPIED.

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

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

Job No: 2012-02-3336-HVAC	Date Applied: 2/21/2012	CBL: 140- C-008-001	
Location of Construction: 24 CARLYLE RD	Owner Name: JUSTIN FLETCHER	Owner Address: 24 CARLYLE RD PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: TIMOTHY CARLAND	Contractor Address: 205 ALLEN AVE PORTLAND MAINE 04103	Phone: 233-4926
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-3
Past Use: Single Family Dwelling	Proposed Use: Same: Single Family Dwelling - to install Rinnai Biasi heating system	Cost of Work: \$7,000.00	CEO District:
		Fire Dept:  Approved Denied N/A	Inspection: <i>123</i> Use Group: Type: <i>HVAC</i>
Proposed Project Description: natural gas		Pedestrian Activities District (P.A.D.) 	

Permit Taken By: Brad	<b>Zoning Approval</b>		
<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>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.</p>	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan  <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>OK 2/23/12</i>	<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 Dist or Landmark <input 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: 

**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



R3 140 C008  
2012-02-3336

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 24 Carleton St Use of Building home Date 2/21/12  
 Name and address of owner of appliance Jayson Hecker  
 Installer's name and address Tim Carland  
205 Aalen Ave Portland Me. 04103 Telephone 233-4926

**Location of appliance:**  
 Basement  Floor  
 Attic  Roof

**Type of Fuel:**  
 Gas  Oil  Solid

**Appliance Name:** Rignea Base  
 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 # 5986  
 Solid Fuel # \_\_\_\_\_  
 Oil # \_\_\_\_\_  
 Gas # PNT 6585  
 Other \_\_\_\_\_

**Type of Chimney:**  
 Masonry Lined  
 Factory built N.A.  
 Metal  
 Factory Built U.L. Listing # N.A.  
 Direct Vent  
 Type CAUC UL# \_\_\_\_\_

**Type of Fuel Tank**  
 Oil  
 Gas Natural

**Size of Tank** \_\_\_\_\_ FEB 21 2012

**Number of Tanks** \_\_\_\_\_  
 Dept. of Building Inspections  
 City of Portland Maine

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

**Cost of Work:** \$ 6200.00  
**Permit Fee:** \$ 90.00

RECEIVED

Approved

Approved with Conditions

Fire: \_\_\_\_\_  
 Ele.: \_\_\_\_\_  
 Bldg.: \_\_\_\_\_

See attached letter or requirement

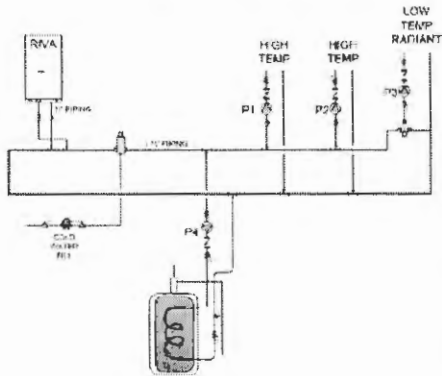
Signature of Installer Tim Carland

Inspector's Signature

Date Approved

## PIPING FOR OUTDOOR RESET

- BOILER MUST BE PIPED IN PRIMARY-SECONDARY FASHION
- INSTALL OUTDOOR SENSOR NORMALLY
- INSTALL WATER SENSOR ON SYSTEM PIPING INSTEAD OF BOILER PIPING



## VENTING

- 3 DIFFERENT TYPES OF VENT KITS AVAILABLE
  - CONCENTRIC, EXHAUST AND INTAKE IN ONE PIPE
  - SEPARATE, PLASTIC EXHAUST AND INTAKE IN TWO PIPES
  - ROOF VENT KIT, VERTICAL VENT KIT FOR THROUGH THE ROOF VENTING
- ALL KITS HAVE 90 DEGREE, 45 DEGREE, AND EXTENSIONS AVAILABLE
- ALL VENT KITS MUST HAVE AT LEAST 12" OF CLEARANCE ABOVE THE GROUND

## VENT DISTANCES

### NON CONDENSING

- CONCENTRIC:
  - 14 FEET
- SEPARATE:
  - 99 FEET
- ROOF VENT
  - 29 FEET

### CONDENSING

- CONCENTRIC:
  - 9 FEET
- SEPARATE:
  - 99 FEET
- ROOF VENT
  - 29 FEET

90'S = 3.3 FEET

45'S = 1.6 FEET

## VENT RESTRICTORS

### NON CONDENSING BOILERS

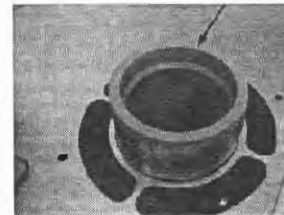


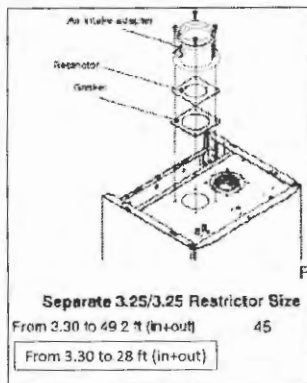
Figure 9.1

Coaxial 2.5/4.0	Restrictor Size
From 1.65 to 3.30 (ft)	41
From 3.30 to 8.86 (ft)	44
Separate 1.25/3.25	Restrictor Size
For 1.65 (in) and 1.65 (out)	38
From 3.30 to 39.40 (in + out)	41

Table 9.1

## VENT RESTRICTORS

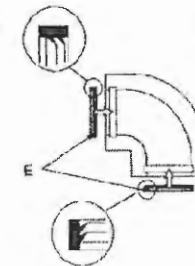
CONDENSING BOILERS



## INSTALLATION OF VENT GASKET

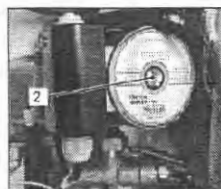
### Exhaust Gasket Installation:

Install the red exhaust o-ring gaskets (E) into each of the vent component female ends as shown in Figure 5. Be sure to install the gaskets so the beveled rings are oriented as shown in Figure 5.



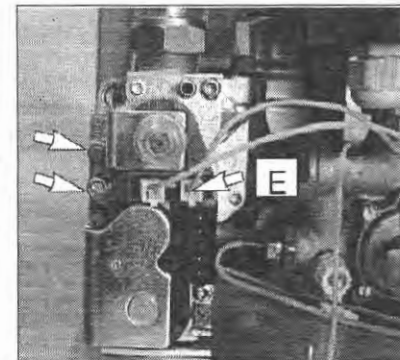
## COMMISSIONING

- OPEN AIR VENT ON CIRCULATOR
- FILL BOILER WITH WATER
- VENT CIRCULATOR BY REMOVING THE CENTER SCREW AND TURNING IMPELLER SHAFT WITH A SCREWDRIVER



## Commissioning

- INSTALL A MANOMETER ON THE INCOMING GAS PRESSURE PORT TO VERIFY PROPER INLET GAS PRESSURES
  - > 7 in w.c. – Natural gas
  - > 11 in w.c. – Propane gas
- Remove manometer from incoming test port and install it on the manifold test port





# CITY OF PORTLAND, MAINE

Department of Building Inspections

## Original Receipt

Feb. 21 2012

Received from Tom Caldwell

Location of Work 74 Cottage

Cost of Construction \$ \_\_\_\_\_ Building Fee: \_\_\_\_\_

Permit Fee \$ \_\_\_\_\_ Site Fee: \_\_\_\_\_

Certificate of Occupancy Fee: \_\_\_\_\_

Total: \_\_\_\_\_

Building (I1)  Plumbing (I5)  Electrical (I2) \_\_\_\_\_ Site Plan (U2) \_\_\_\_\_

Other \_\_\_\_\_

CBL: 140 0008

Plb 110.00  
HTg 90.00

Check #: 1043 Total Collected \$ 110.00

**No work is to be started until permit issued.  
Please keep original receipt for your records.**

Taken by: [Signature]

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