

City of Portland, Maine - Building or Use Permit Application

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

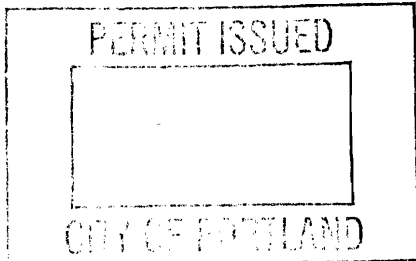
Permit No: 08-0758	Issue Date: 6/27/08	CBL: 123 A002001
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Location of Construction: 8 GLENWOOD AVE	Owner Name: LAWWILL BRADLEY M & LAU	Owner Address: 8 GLENWOOD AVE	Phone:
Business Name:	Contractor Name: Heating Solutions	Contractor Address: PO Box 129 Buxton	Phone 2072327525
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R3

Past Use: Single Family Home	Proposed Use: Single Family Home - Install a Natural Gas prestige boiler	Permit Fee: \$100.00	Cost of Work: \$7,400.00	CEO District: 3
Proposed Project Description: Install a Natural Gas prestige boiler		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R-3 Type: SB IMC-2003 IRC-2003	
		Signature:	Signature: 6/27/08	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
		Signature: _____ Date: _____		

Permit Taken By: ldobson	Date Applied For: 06/25/2008	Zoning Approval
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- 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..



Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <i>OK</i> Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 6/27/08	Zoning Appeal <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:	Historic Preservation <input checked="" type="checkbox"/> Not in District 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: 6/27/08
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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

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Permit No: 08-0758	Date Applied For: 06/25/2008	CBL: 123 A002001
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Location of Construction: 8 GLENWOOD AVE	Owner Name: LAWWILL BRADLEY M & LAUR	Owner Address: 8 GLENWOOD AVE	Phone:
Business Name:	Contractor Name: Heating Solutions	Contractor Address: PO Box 129 Buxton	Phone (207) 232-7525
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home - Install a Natural Gas prestige boiler	Proposed Project Description: Install a Natural Gas prestige boiler
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Dept: Zoning	Status: Approved	Reviewer: Chris Hanson	Approval Date: 06/27/2008
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
Dept: Building	Status: Approved with Conditions	Reviewer: Chris Hanson	Approval Date: 06/27/2008
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) Prior to installing the solid fuel appliance, the product information which includes the UL listing shall be submitted. The heating unit shall be installed per the Listing, NFPA 211, IMC 2003 and the manufacturers instructions. 2) The installation must comply with the State of Maine Gas Regulations. 3) Installation shall comply with 2003 International Mechanical Code and State of Maine Oil and Solid Fuel Board Laws and Rules			



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 123-A-2- Use of Building _____ Date _____

Name and address of owner of appliance Brad & Laura Linnell 48 Glenwood Ave Portland

Installer's name and address Heating Solutions PO BOX 124 Buxton me 04073
Telephone 207-232-7525

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Prestige

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 806
- Other _____

Type of Chimney:

Masonry Lined
Factory built _____

Metal
Factory Built U.L. Listing # _____

Direct Vent
Type PVC UL# _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank Natural Gas-

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 7,400

Permit Fee: \$ 100

Approved

Approved with Conditions

Fire: _____
Ele.: _____
Bldg.: _____

See attached letter or requirement

Chris A. [Signature]
Inspector's Signature

6/27/08
Date/Approved

Signature of Installer [Signature]



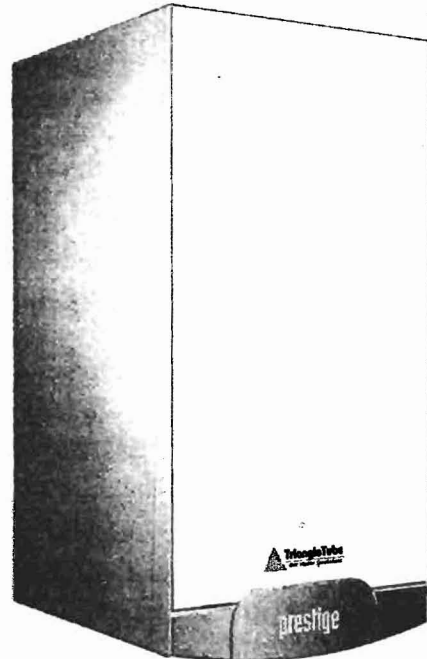
Triangle Tube

Hot Water Specialists

prestige

Solo 110

Water Boiler



* INSTALLATION AND MAINTENANCE * M A N U A L

Warranty Registration Card must be filled out by the customer and mailed within thirty (30) days of installation in order to gain warranty coverage.

When receiving the PRESTIGE Solo, any claims for damage or shortage in shipment must be filed immediately against the transportation company by the consignee.

Leave all documentation received with appliance with owner for future reference.

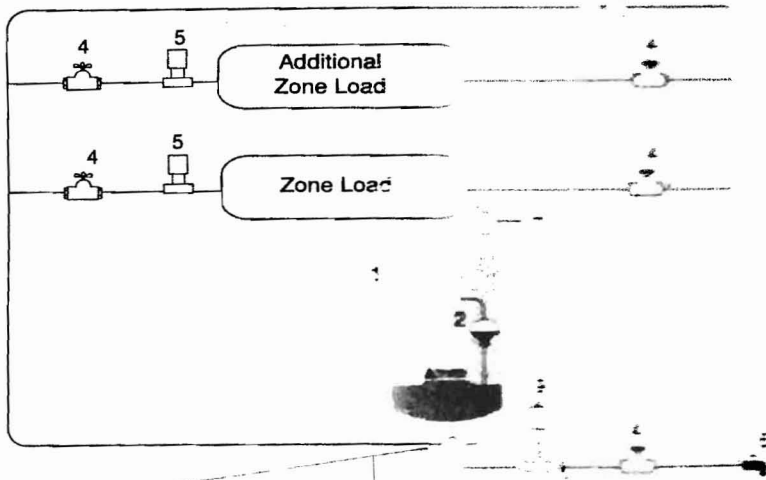
If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

FOR YOUR SAFETY

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

Boiler Piping

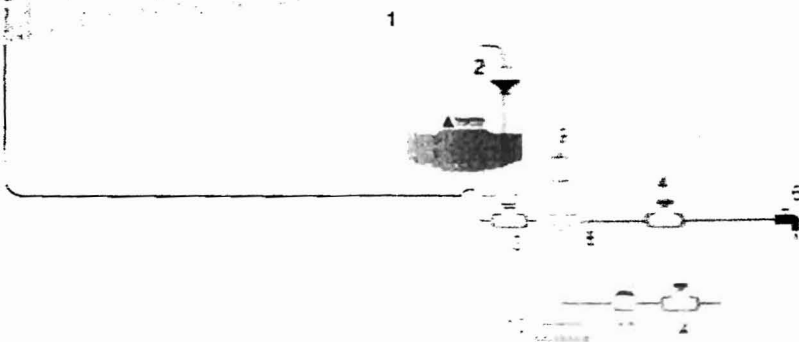


Note: Verify CH circulator is properly sized to overcome the system pressure drop and provide adequate flow through the boiler system.

Zone Valve with Single System/Boiler Circulator

- 1. Air separator
- 2. Automatic air vent
- 3. Diaphragm expansion tank
- 4. Automatic fill valve
- 5. Pressure differential valve

Handwritten: O.K. to Issue



Note: Verify CH circulator is properly sized to overcome the system pressure drop and provide adequate flow through the boiler system.

Fig. 12: CH System Piping - Single Zone System with Single System/Boiler Circulator

- | | |
|-------------------------|------------------------------|
| 1. PRESTIGE Solo boiler | 7. Pressure relief valve |
| 2. CH circulator | 8. Air separator |
| 3. Flow check valve | 9. Automatic air vent |
| 4. Isolation valve | 10. Diaphragm expansion tank |
| 5. Drain/purge valve | 11. Automatic fill valve |

Pre-Installation Items



Recommended Clearances

The PRESTIGE Solo is approved for zero clearance to combustibles, excluding vent and boiler piping.

- Boiler Piping - 1/4 inch from combustible materials.
- Reference the appropriate vent supplement for clearance requirements.

BEST PRACTICES

To provide serviceability to the unit it is recommended that the following clearances be maintained:

Top boiler jacket - 24 inches [610 mm].

Front - 24 inches [610 mm].

Bottom boiler piping - 24 inches [610 mm].

Rear - 0 inches

Sides - 6 inches [153 mm].

WARNING

If the clearances listed above cannot be maintained, the space must be ventilated. See page 6 for ventilation requirements.

NOTICE

When maintaining zero clearance or less than recommended clearances, some product labeling may become hidden and unreadable

WARNING

When installing the PRESTIGE Solo in a confined space, sufficient air must be provided for proper combustion and venting and to allow, under normal operating conditions, proper air flow around the product to maintain ambient temperatures within safe limits to comply with the National Fuel Gas Code NFPA 54 - latest edition.

Residential Garage Installations

When installing the PRESTIGE Solo in a residential garage, the following special precautions per NFPA 54/ANSI Z223.1 must be taken:

- Mount the unit with a minimum 18 inches [458 mm] above the floor level of the garage. Ensure the burner and ignition devices / controls are no less than 18 inches [458 mm] above the floor level.
- Locate or protect the unit in a manner so it cannot be damaged by a moving vehicle.

Boiler Freeze Protection Feature

The boiler control has an freeze protection feature built in. This feature monitors the boiler temperature and responds as follows when no call for heat is present:

- 46°F Boiler circulator is ON
- 38°F Boiler circulator is ON and burner operates at low fire
- 50°F Burner OFF and boiler circulator operates for approximately 10 minutes

CAUTION

The boiler freeze protection feature is disabled during a hard lockout, however the CH circulator will operate.

CAUTION

The boiler freeze protection feature is designed to protect the boiler. The boiler should be installed in a primary/secondary piping arrangement if it is installed in an unheated space or exposed to water temperatures of 46°F or less. See Section IV for primary/secondary piping examples. See Section IX for antifreeze guidelines

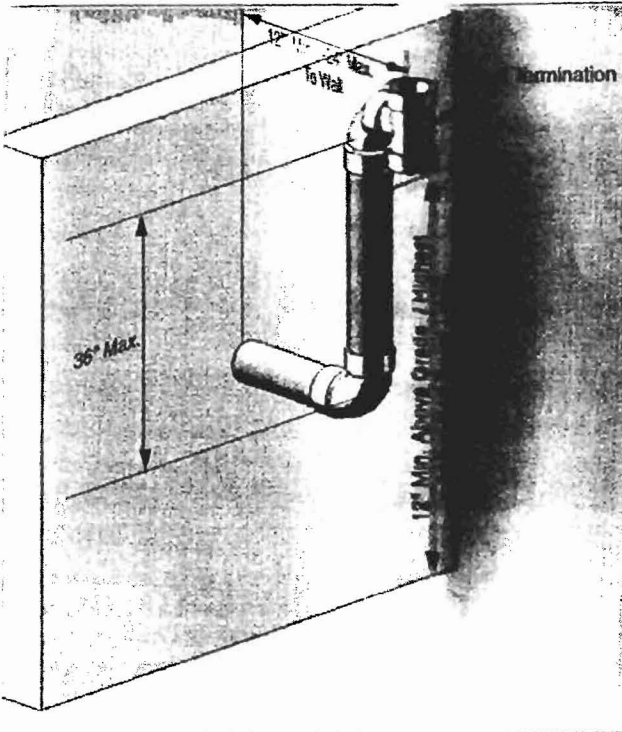


Fig. 30: Category IV - Sidewall Snorkel Termination of Vent Pipe with Tee Termination

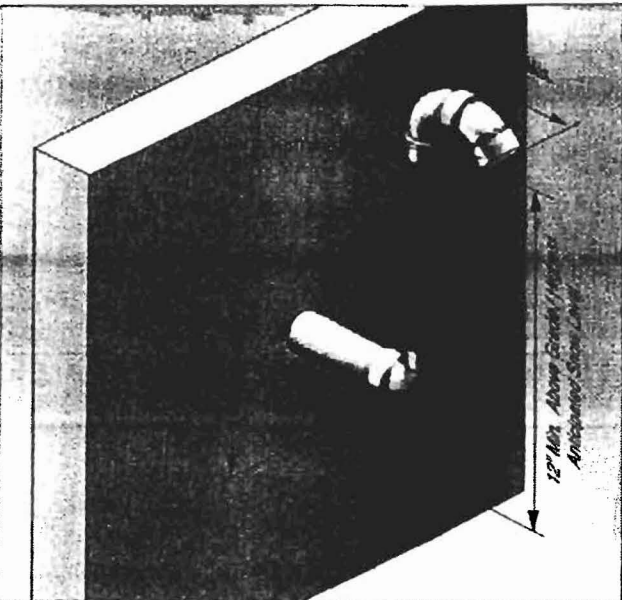


Fig. 31: Category IV - Sidewall Snorkel Termination of Vent Pipe with 45° Elbow Termination

Category IV - Vent Installation - Sidewall

1. Vent Penetration

- Vent pipe penetration through combustible or non-combustible wall material should maintain a minimum 1/4" clearance. The diameter of the penetration hole should be 4" minimum for 3" pipe or 5" minimum for 4" pipe.

2. The installer must use a galvanized metal thimble for the vent pipe penetration.

3. Locate the vent pipe penetration to provide minimum clearances as described in Figs. 26 through 31 pages 26 and 27.

4. The installer must comply with all local codes for isolating the vent pipe as it passes through floors and walls.

5. The installer should seal all exterior openings around penetrations with an exterior silicon caulk.

Termination Fittings - Sidewall

1. The vent and combustion air terminations must include a factory supplied "bird screen" installed as shown in Figs: 16 through 19 page 15.

2. The combustion air piping must terminate at the boiler with a 90° elbow.

3. The vent pipe can terminate:

- Using a 90° elbow as shown in Fig. 29 page 26.
- Using a coupling as shown in Fig. 26 page 26.
- Using a tee as shown in Fig. 27 page 26 or Fig. 30 page 27 .
- Using a 45° elbow as shown in Fig. 28 page 26 or Fig. 31 page 27.

The vent termination must be installed 12" minimum above grade / highest anticipated snow level.

WARNING

Do not extend the vent pipe outside the sidewall beyond the dimensions shown in Figs. 26 through 31 pages 26 and 27. Extended exposure of the vent pipe could cause condensate to freeze and block the vent pipe.