



FILL IN AND SIGN WITH INK

PERMIT ISSUED  
SEP 22 2010

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

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 36-38 State Str. 44-C-13 Use of Building \_\_\_\_\_ Date 8-17-10

Name and address of owner of appliance Dan Hoffman 50 Market Str So. Portland

Installer's name and address Charles Burnham Heating Service Inc.  
P.O. Box 382 Freeport, ME 04032 Telephone 865-9010

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

**Type of Fuel:**  
 Gas       Oil       Solid

**Appliance Name:** Triangle Tube  
 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 # PMT 6050  
 Other \_\_\_\_\_

**Type of Chimney:**  
 Masonry Lined CPVC  
 Factory built \_\_\_\_\_

Metal  
 Factory Built U.L. Listing # \_\_\_\_\_

Direct Vent  
 Type \_\_\_\_\_ UL# \_\_\_\_\_

**Type of Fuel Tank**  
 Oil  
 Gas

**Size of Tank** \_\_\_\_\_

**Number of Tanks** \_\_\_\_\_

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

**Cost of Work:** \$ 88,500.00  
**Permit Fee:** \$ 900

RECEIVED  
AUG 17 2010  
Dept. of Building Inspections  
City of Portland Maine

**Approved**

**Approved with Conditions**

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

See attached letter or requirement

Inspector's Signature \_\_\_\_\_ Date Approved \_\_\_\_\_

Signature of Installer [Signature]

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

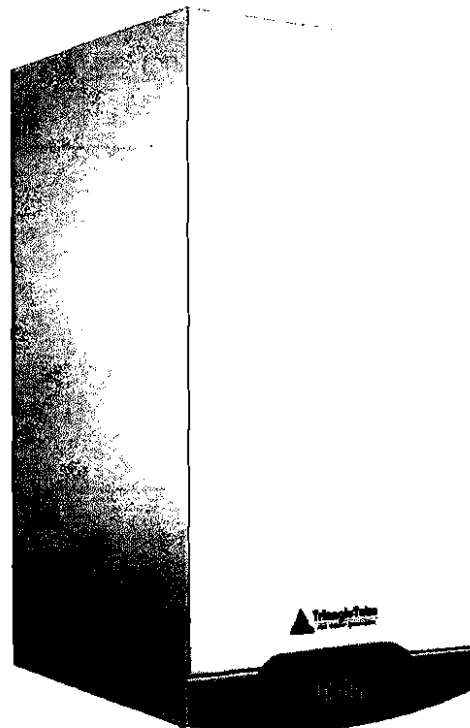


**TriangleTube**

*Hot Water Specialists*

**prestige**

**Solo 60  
Solo 175  
Solo 250  
Solo 399  
Water Boiler**



**\* INSTALLATION AND MAINTENANCE \*  
M A N U A L**

**NOTICE**

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 unit, 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.

**WARNING**

**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.

### SECTION I - Pre-Installation Items

#### Code Compliance

This product must be installed in accordance to the following:

- All applicable local, state, national and provincial codes, ordinances, regulations and laws.
- For installations in Massachusetts, code requires the boiler to be installed by a licensed plumber or gas fitter, and if antifreeze is utilized, the installation of a reduced pressure backflow preventer device is required in the boiler's cold water fill or make up water supply line.
- For installation in Massachusetts all direct vented appliances must comply with the guidelines as outlined on page 11.
- The National Fuel Gas Code NFPA54/ANSI Z 223.1 - Latest edition.
- National Electric Code ANSI/NFPA 70.
- For installations in Canada - "Installation Code for Gas Burning Equipment" CGA/B149.1 or B149.2 Canadian Electrical Code Part 1 CSA C22.1.
- Standards for Controls and Safety Devices for Automatically Fired Boilers, ANSI/ASME CSD-1, when required.

#### NOTICE

**The PRESTIGE Solo boiler gas manifold and gas controls meet the safe lighting and other performance requirements as specified in ANSI Z21.13 latest edition.**

#### Determining Product Location

Before locating the PRESTIGE SOLO check for convenient locations to:

- Heating system piping
- Venting
- Gas supply piping
- Electrical service

Ensure the boiler location allows the combustion air/vent piping to be routed directly through the building and terminate properly outside with a minimum amount of length and bends.

Ensure the area chosen for the installation of the PRESTIGE Solo is free of any combustible materials, gasoline and other flammable liquids.

#### WARNING

**Failure to remove or maintain the area free of combustible materials, gasoline and other flammable liquids or vapors can result in severe personal injury, death or substantial property damage.**

Ensure the PRESTIGE Solo and its controls are protected from dripping or spraying water during normal operation or service.

The PRESTIGE Solo should be installed in a location so that any water leaking from the boiler or piping connections or relief valve will not cause damage to the area surrounding the unit or any lower floors in the structure.

#### Boiler Replacement

If the PRESTIGE Solo is replacing an existing boiler, the following items should be checked and corrected prior to installation:

- Boiler piping leaks and corrosion.
- Improper location and sizing of the expansion tank on the boiler heating loop.
- If applicable, level and quality of freeze protection within the boiler system.

#### 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.

## Pre-Installation Items



- 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 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 a 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 guides.



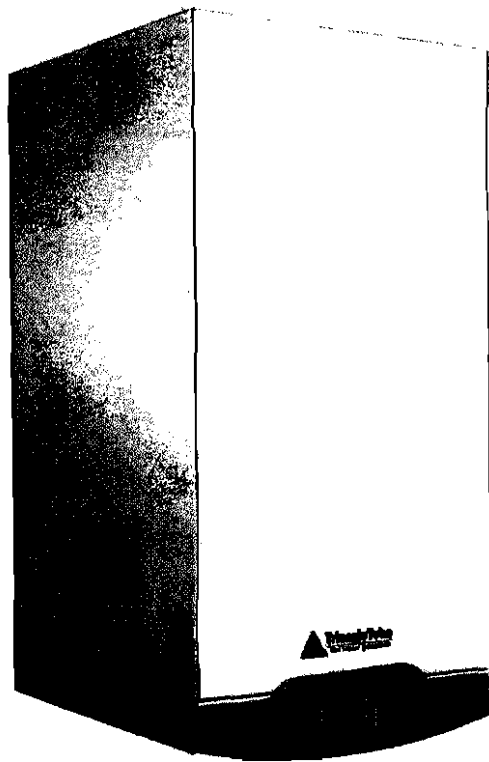
**TriangleTube**

*Hot Water Specialists*

# prestige

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## PVC & CPVC Vent Supplement

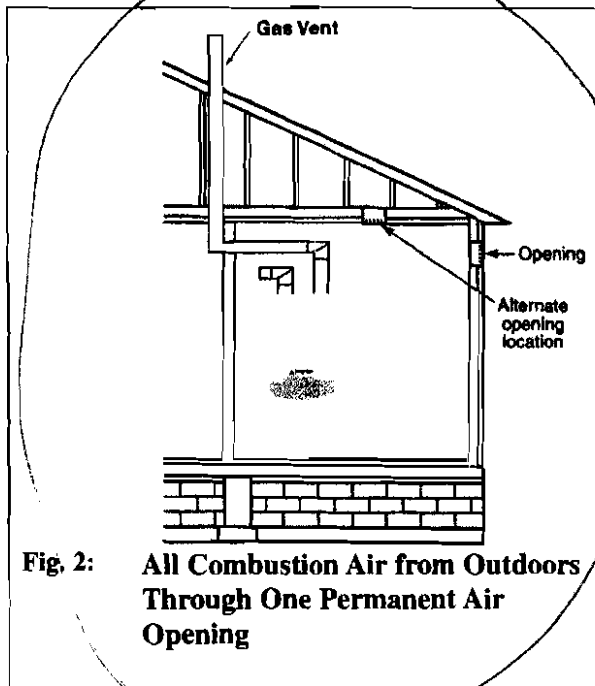


### **WARNING**

This document is intended to be used by a qualified heating contractor or service technician. Read all instructions within this document and within the PRESTIGE Boiler Installation and Maintenance Manual, before proceeding with the installation. It is recommended to follow the procedures in the steps given, skipping or missing procedural steps could result in severe personal injury, death or substantial property damage.

### **NOTICE**

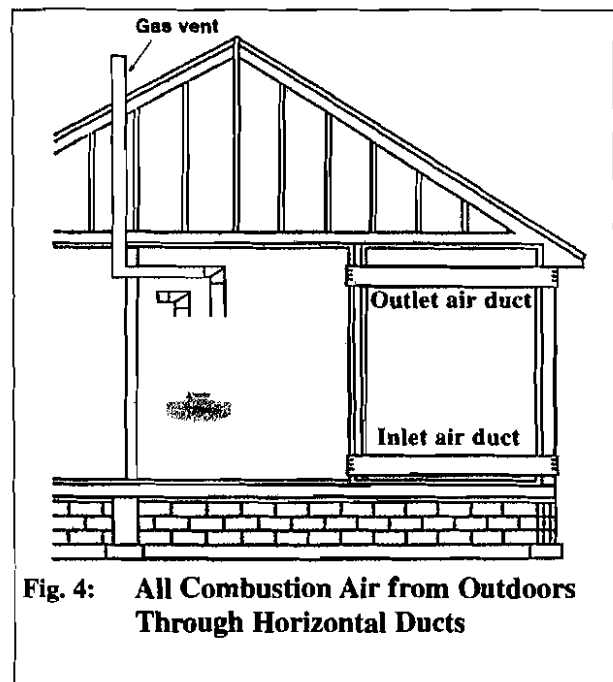
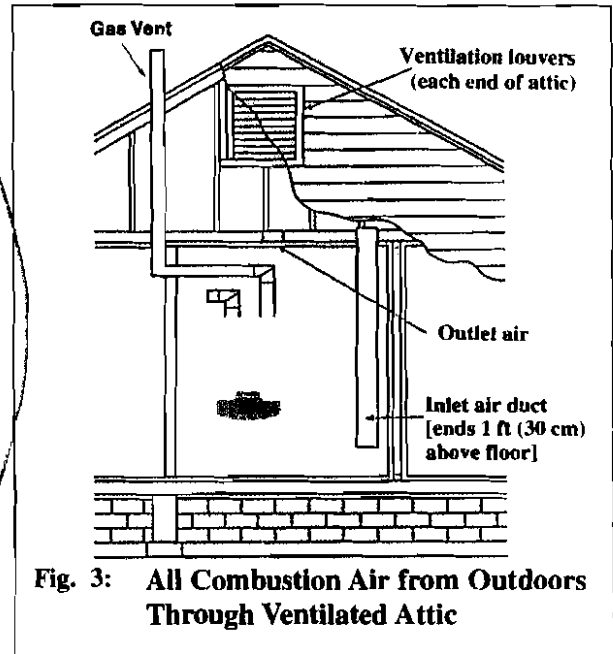
Installation of this boiler must comply with local requirements and codes and with the National Fuel Gas Code NFPA 54, ANSI Z223.1 for installations within the U.S. For installations in Canada the installation must comply with CSA B149.1 or B149.2



### Two Permanent Openings Method.

Two permanent openings, one commencing within 12 in. of the top and one commencing within 12 in. of the bottom of the enclosure, shall be provided. The openings shall communicate directly, or by ducts, with the outdoors or spaces that freely communicate with the outdoors, as follows:

- Where directly communicating with the outdoors or where communication to the outdoors is through vertical ducts, each opening shall have a minimum free area of 1 sq. in./4000 Btu/hr of total input rating of all equipment in the enclosure. See Fig. 3.
- Where communicating with the outdoors is through horizontal ducts, each opening shall have a minimum free area of not less than 1 sq.in./2000 Btu/hr of total input rating of all equipment in the enclosure. See Fig. 4.



### Combination of Indoor and Outdoor Combustion Air

**Indoor Openings:** Where used, openings connecting the interior spaces shall comply with the Indoor Combustion Air section on page 7.

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

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

Permit No: 10-1013	Issue Date:	CBL: 044 C013001
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Location of Construction: 36 STATE ST	Owner Name: LOW INCOME PROPERTIES LLC	Owner Address: 50 MARKET ST # 299	Phone:
Business Name:	Contractor Name: Charlie Burnham Heating	Contractor Address: PO Box 382 Freeport	Phone 2078659010
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-6

Past Use: Multi unit building	Proposed Use: Multi-Unit Building - install new Prestige Solo Triangle Tube Boiler and Hot water in basement	Permit Fee: \$910.00	Cost of Work: \$88,500.00	CEO District: 2
<p><i>Legal Use: 22 units (34-36 = 1 DU / 38-40 = 11 DU)</i></p> <p>Proposed Project Description: install new Prestige Solo Triangle Tube Boiler and Hot water in basement</p>		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied INSPECTION: Use Group: Type: <i>Maine Gas Code</i>		Signature: <i>(KG)</i> Signature: <i>(R)</i>
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: Idobson	Date Applied For: 08/17/2010	<b>Zoning Approval</b>		
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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..	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 <input type="checkbox"/> Minor <input type="checkbox"/> MM	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	Historic Preservation <input 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: <i>8/23/10</i>	Date: <i>8/23/10</i>	Date: <i>Requires SA</i>

**PERMIT ISSUED**

SEP 22 2010

City of Portland

*Any extension of work requires SA*  
*Separate Review & Approval*

**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

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

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

Permit No: 10-1013	Date Applied For: 08/17/2010	CBL: 044 C013001
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Location of Construction: 36 STATE ST	Owner Name: LOW INCOME PROPERTIES LLC	Owner Address: 50 MARKET ST # 299	Phone:
Business Name:	Contractor Name: Charlie Burnham Heating	Contractor Address: PO Box 382 Freeport	Phone (207) 865-9010
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Multi-Unit Building - install new Prestige Solo Triangle Tube Boiler and Hot water in basement	Proposed Project Description: install new Prestige Solo Triangle Tube Boiler and Hot water in basement
-----------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

Dept: Zoning      Status: Approved with Conditions      Reviewer: Marge Schmuckal      Approval Date: 08/23/2010

Note: Ok to Issue:

- 1) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
- 2) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals.
- 3) This property shall remain a twenty two family building. Any change of use shall require a separate permit application for review and approval.

Dept: Building      Status: Approved with Conditions      Reviewer: Jonathan Rioux      Approval Date: 09/22/2010

Note: Ok to Issue:

- 1) The installation must comply with the State of Maine Gas Regulations.
- 2) All penetrations (including ventilation) through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM 814 or UL 1479, per IBC 2003 Section 712.
- 3) Maintain proper setback(s) from property lines/buildings and proper clearances from verticle openings when direct venting.
- 4) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.

Dept: Fire      Status: Approved with Conditions      Reviewer: Capt Keith Gautreau      Approval Date: 08/26/2010

Note: Ok to Issue:

- 1) Install shall comply with all manufacture's specifications.
- 2) Install shall comply with NFPA 54.  
A compliance letter is required

**Comments:**

9/22/2010-jrioux: Spoke with Charlie Burnham, existing listed/ rated chimney will be used for ventilation, this is to change over the old boiler and continue hot water service to the building.

**PERMIT ISSUED**

SEP 22 2010