

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

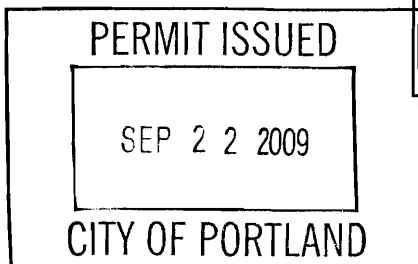
Permit No: 09-1009	Issue Date:	CBL: 348 C022084
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Location of Construction: 84 NORTHWOOD DR	Owner Name: SKEHAN MARY E	Owner Address: 84 NORTHWOOD DR	Phone:
Business Name:	Contractor Name: Caron & Waltz	Contractor Address: 321 Lincoln Street South Portland	Phone 2077992228
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: E5

Past Use: Single Family Home	Proposed Use: Single Family Home - install a prestige PE110	Permit Fee: \$110.00	Cost of Work: \$8,970.00	CEO District: 5
Proposed Project Description: install a prestige PE110		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type: SB JRC 2003 JMC 2003 Signature: Jm 9/15/09	
		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: 09/15/2009	Zoning Approval
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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 (OK) <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>	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 checked="" type="checkbox"/> Not in District or Landmark <input checked="" 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: Jm 9/15/09	Date: Jm 9/15/09	Date: Jm 9/15/09



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: 09-1009	Date Applied For: 09/15/2009	CBL: 348 C022084
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Location of Construction: 84 NORTHWOOD DR	Owner Name: SKEHAN MARY E	Owner Address: 84 NORTHWOOD DR	Phone:
Business Name:	Contractor Name: Caron & Waltz	Contractor Address: 321 Lincoln Street South Portland	Phone (207) 799-2228
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home - install a prestige PE110	Proposed Project Description: install a prestige PE110
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Tom Markley **Approval Date:** 09/15/2009

Note: **Ok to Issue:**

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

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tom Markley **Approval Date:** 09/15/2009

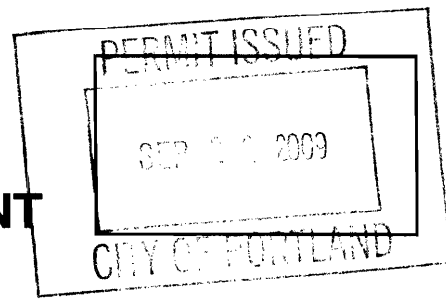
Note: **Ok to Issue:**

- 1) The installation must comply with the State of Maine Gas Regulations.
- 2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.



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 84 NORTHWOOD DRIVE Use of Building RESIDENCE Date 9/15/09
 Name and address of owner of appliance MARY SKEHAN
84 NORTHWOOD DRIVE, PORTLAND, ME 04103
 Installer's name and address CAROL WALTZ
321 LINCOLN ST, So. PORTLAND, ME 04106 Telephone 799-2228

<p>Location of appliance:</p> <input checked="" type="checkbox"/> Basement <input type="checkbox"/> Floor <input type="checkbox"/> Attic <input type="checkbox"/> Roof <p>Type of Fuel:</p> <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Solid <p>Appliance Name: <u>PRESTIGE PE110</u> U.L. Approved <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Will appliance be installed in accordance with the manufacture's installation instructions? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>IF <u>NO</u> Explain: _____</p> <p>The Type of License of Installer:</p> <input type="checkbox"/> Master Plumber # _____ <input type="checkbox"/> Solid Fuel # _____ <input type="checkbox"/> Oil # _____ <input checked="" type="checkbox"/> Gas # <u>PNT 6 885</u> <input type="checkbox"/> Other _____	<p>Type of Chimney:</p> <input type="checkbox"/> Masonry Lined Factory built _____ <input type="checkbox"/> Metal Factory Built U.L. Listing # <u>15 2009</u> <input checked="" type="checkbox"/> Direct Vent Type <u>PVC</u> UL# _____ <p>Type of Fuel Tank</p> <input type="checkbox"/> Oil <u>NA</u> <input type="checkbox"/> Gas <p>Size of Tank <u>NA</u></p> <p>Number of Tanks <u>NA</u></p> <p>Distance from Tank to Center of Flame <u>NA</u> feet.</p> <p>Cost of Work: \$ <u>8,970</u> Permit Fee: \$ <u>110</u></p>
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Approved	Approved with Conditions
Fire: _____	<input type="checkbox"/> See attached letter or requirement
Ele.: _____	
Bldg.: _____	
Signature of Installer <u>[Signature]</u>	Inspector's Signature _____ Date Approved _____

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

Specifications & Performance

Boiler



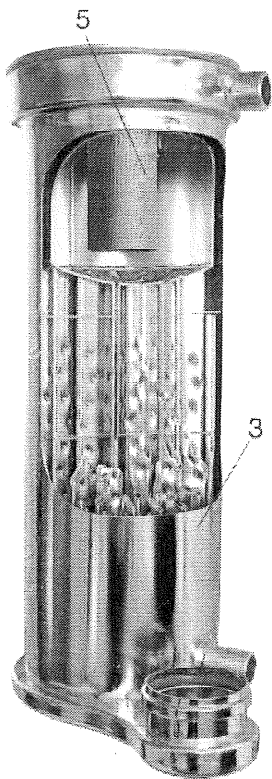
Model	Fuel	Input Modulation MBH	AFUE	DOE Heating Capacity MBH	NET I=B=R MBH	Boiler Water Content Gal.
PE 110	Natural Gas	30 -110	95%	99	86	2.5
PE 110 LP	Propane Gas	25 - 97	95%	87	76	2.5

Model	Fuel	Supply / Return Connections	Gas Connection	Vent/Air Diameter	Dimensions D x W x H	Weight Lbs
PE 110	Natural Gas/ Propane	1"	1/2"	3"	20.8" x 24.7" x 37.2"	190

Water Heater

Model	10 Min. Peak Flow* (Gal.)	1st Hour Rating* (GPH)	Continuous Flow @70° Rise (GPH)	Domestic Inlet/Outlet	Domestic Capacity (Gal.)	Heating Water Capacity (Gal.)
PE 110	55	210	180	3/4"	14	2.3

* Domestic performance based on average water temperature of 108°F at mixing valve outlet and 50°F inlet



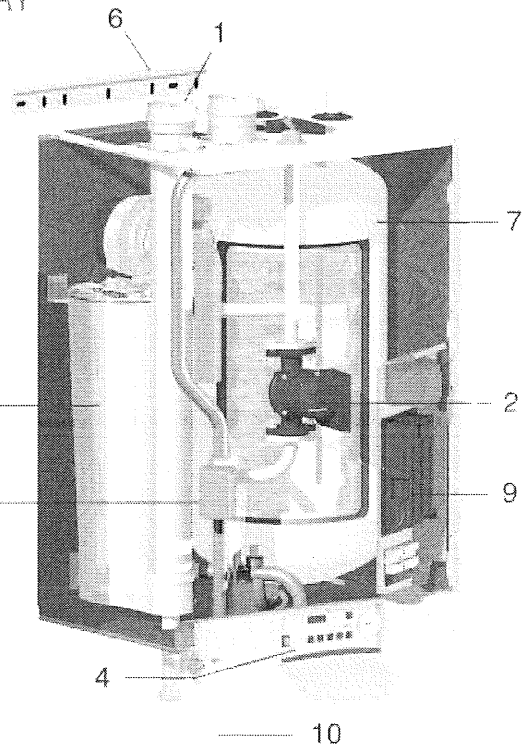
439 GRADE STAINLESS STEEL HEAT EXCHANGER
Vertical Firetube Design. Impervious to chloride cracking. Unparalleled resistance to corrosion.

HIGHEST WATER CONTENT IN THE INDUSTRY

- Ideal for small zones without short cycling
- Stable temperature control
- Low pressure drop
- Less sensitive to water flow

SELF CLEANING /SELF DESCALING

Condensate washes combustion residue away when streaming down the tubes resulting in a constant efficiency and reduced maintenance.



Legend

- 3" Flue connection - 1
- 3 Speed System Circulator - 2
- ASME Stainless steel heat exchanger - 3
- Control panel with digital display - 4
- Stainless steel premix gas burner - 5
- Wall bracket - 6
- Insulated "tank-in-tank" water heater - 7
- 3-way valve - 8
- Honeywell MCBA control on swing door - 9
- Condensate Drain Assembly - 10

Available with optional wall kit or floor stand



One Triangle Lane • Blackwood NJ 08012

p 856.228.8881 f 856.228.3584 www.triangletube.com

Member of



2007-21 Prestige Excellence Lit - Revised date: 021109

Recommended Clearances

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

- Vent & Boiler Piping - 1/4 inch from combustible materials.

BEST PRACTICES

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

- Top boiler jacket - 24 inches.
- Front - 24 inches.
- Bottom boiler piping - 24 inches.
- Rear - 0 inches
- Sides - 6 inches

WARNING

If the clearances listed above cannot be maintained or the enclosure in which the boiler is installed is less than 85 cubic feet, 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 Excellence 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 Excellence 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 above the floor level of the garage. Ensure the burner and ignition devices / controls are no less than 18 inches 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 and the 3-way valve will open to the CH system.

CAUTION

The boiler freeze protection feature is designed to protect the boiler and 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.

SECTION II - Combustion Air and Venting

Combustion Air Contamination

WARNING

If the **PRESTIGE Excellence** combustion air inlet is located in any area likely to cause or contain contamination, or if products, which would contaminate the air cannot be removed, the combustion air must be repiped and terminated to another location. Contaminated combustion air will damage the unit and its burner system, resulting in possible severe personal injury, death or substantial property damage.

WARNING

Do not operate a **PRESTIGE Excellence** if its combustion air inlet is located near a laundry room or pool facility. These areas will always contain hazardous contaminants.

Pool and laundry products and common household and hobby products often contain fluorine or chlorine compounds. When these chemicals pass through the burner and vent system, they can form strong acids. These acids can create corrosion of the heat exchanger, burner components and vent system, causing serious damage and presenting a possible threat of flue gas spillage or water leakage into the surrounding area.

Please read the information listed below. If contaminating chemicals are located near the area of the combustion air inlet, the installer should pipe the combustion air inlet to an outside area free of these chemicals per SECTION V of this installation manual.

Potential contaminating products

- Spray cans containing chloro/fluorocarbons
- Permanent Wave Solutions
- Chlorinated wax
- Chlorine - based swimming pool chemicals / cleaners
- Calcium Chloride used for thawing ice
- Sodium Chloride used for water softening
- Refrigerant leaks
- Paint or varnish removers
- Hydrochloric acid / muriatic acid
- Cements and glues
- Antistatic fabric softeners used in clothe dryers
- Chlorine-type bleaches, detergents, and cleaning solvents found in household laundry rooms
- Adhesives used to fasten building products and other similar products

Areas likely to contain these products

- Dry cleaning / laundry areas and establishments
- Beauty salons
- Metal fabrication shops
- Swimming pools and health spas
- Refrigeration Repair shops
- Photo processing plants
- Auto body shops
- Plastic manufacturing plants
- Furniture refinishing areas and establishments
- New building construction
- Remodeling areas
- Garages with workshops

Ventilation and Combustion Air Requirements - Direct Vent

A Direct Vent appliance utilizes uncontaminated outdoor air (piped directly to the appliance) for combustion)

For Direct Vent installations, involving only the PRESTIGE Excellence, in which the minimum service clearances are maintained as listed on page 4, no ventilation openings are required.

For Direct Vent, zero clearance installations involving only the PRESTIGE Excellence, the space / enclosure must provide two openings for ventilation. The openings must be sized to provide 1 square inch of free area per 1,000 BTUH of boiler input. The openings shall be placed 12 inches from the top of the space and 12 inches from the floor of the space.

For installations in which the PRESTIGE Excellence shares the space with air movers (exhaust fan, clothes dryers, fireplaces, etc.) and other combustion equipment (gas or oil) the space must be provided with adequate air openings to provide ventilation and combustion air to the equipment. To properly size the ventilation / combustion air openings, the installer must comply with the National Fuel Gas Code NFPA 54, ANSI Z223.1 for installations in the U.S or CSA B149.1 and B149.2 for installations in Canada.

WARNING

The space must be provided with ventilation / combustion air openings properly sized for all make-up air requirements (exhaust fans, clothes dryers, fireplaces, etc.) and the total input of all appliances located in the same space as the PRESTIGE Excellence, excluding the input of a Direct Vent PRESTIGE Excellence which uses combustion air directly from the outside, thus additional free area for the openings is not required. Failure to provide or properly size the openings could result in severe personal injury, death or substantial property damage.

Ventilation and Combustion Air Requirements - Category IV

A Category IV appliance utilizes uncontaminated indoor or outdoor air (surrounding the appliance) for combustion.

BEST PRACTICES

In order to reduce the potential risks associated with indoor contaminants (listed on page 5), flammable vapors and tight housing construction (little or no infiltration air), it is recommended to pipe uncontaminated combustion air directly from the outdoors to the appliance. This practice also promotes higher system efficiency by reducing heated indoor air from being exhausted from the house and replaced by cold infiltration air into the house.

For installations in which the PRESTIGE Excellence shares the space with air movers (exhaust fan, clothes dryers, fireplaces, etc.) and other combustion equipment (gas or oil) the space must be provided with adequate air openings to provide ventilation and combustion air to the equipment. To properly size the ventilation / combustion air openings, the installer must comply with the National Fuel Gas Code NFPA 54, ANSI Z223.1 for installations in the U.S or CSA B149.1 and B149.2 for installations in Canada, as referenced in this section of the manual and titled Methods of Accessing Combustion Air into a Space.

WARNING

The space must be provided with ventilation / combustion air openings properly sized for all make-up air requirements (exhaust fans, clothes dryers, fireplaces, etc.) and the total input of all appliances, including the PRESTIGE Excellence when located in the same space as the PRESTIGE Excellence. Failure to provide or properly size the openings could result in severe personal injury, death or substantial property damage.