

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

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

Permit No: 08-0444	Issue Date:	CBL: 405A G016001
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Location of Construction: 8 LIBERTY WAY	Owner Name: CGB PROPERTIES LLC	Owner Address: 84 COUNTRY LN	Phone:
Business Name:	Contractor Name: Jerrys Plumbing & Heating	Contractor Address: 22 Ridgeview Drive Biddeford	Phone 2072822319
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-3

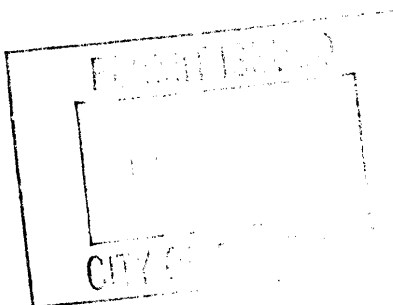
Past Use: Single Family Home	Proposed Use: Single Family Home - Install Gas Direct Vent Heating System.	Permit Fee: \$90.00	Cost of Work: \$7,000.00	CEO District: 4
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <i>[Signature]</i>	INSPECTION: Use Group: HVAC Type: <i>[Signature]</i>	

**Proposed Project Description:**  
Install Gas Direct Vent Heating System.

Signature:		Signature:	
<b>PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)</b>			
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied			
Signature:		Date:	

Permit Taken By: lmd	Date Applied For: 04/30/2008	<b>Zoning Approval</b>	
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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..



<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>5/1/08</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 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:
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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



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

PERMIT ISSUED

405 A G 016

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 \_\_\_\_\_ Use of Building \_\_\_\_\_ Date 4/30/08

Name and address of owner of appliance Brackett Construction  
8 Liberty Way

Installer's name and address Jerry's Plbg + Htg.  
22 Ridgeview Dr. Biddeford, ME. Telephone 282-2319

### Location of appliance:

- Basement
- Attic
- Floor
- Roof

### Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Triangle Tube 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 1262
- Other \_\_\_\_\_

### Type of Chimney:

- Masonry Lined  
Factory built \_\_\_\_\_
- Metal  
Factory Built U.L. Listing # \_\_\_\_\_
- Direct Vent  
Type \_\_\_\_\_ UL# \_\_\_\_\_

### Type of Fuel Tank

- Oil
- Gas

Size of Tank by gas company

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

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

Cost of Work: \$ 7000.00

Permit Fee: \$ 90.00

Approved

MAY - 1 2008

Approved with Conditions

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

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer Jerry Guertin

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

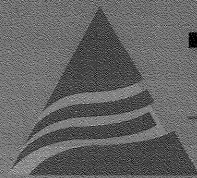
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

<b>Permit No:</b> 08-0444	<b>Date Applied For:</b> 05/01/2008	<b>CBL:</b> 405A G016001
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<b>Location of Construction:</b> 8 LIBERTY WAY	<b>Owner Name:</b> CGB PROPERTIES LLC	<b>Owner Address:</b> 84 COUNTRY LN	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Jerrys Plumbing & Heating	<b>Contractor Address:</b> 22 Ridgeview Drive Biddeford	<b>Phone</b> (207) 282-2319
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	

<b>Proposed Use:</b> Single Family Home - Install Gas Direct Vent Heating System.	<b>Proposed Project Description:</b> Install Gas Direct Vent Heating System.
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<b>Dept:</b> Zoning	<b>Status:</b> Approved	<b>Reviewer:</b> Marge Schmuckal	<b>Approval Date:</b> 05/01/2008
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
<b>Dept:</b> Building	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Tammy Munson	<b>Approval Date:</b> 05/08/2008
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
1) The installation must comply with the State of Maine Gas Regulations.			



**TriangleTube**

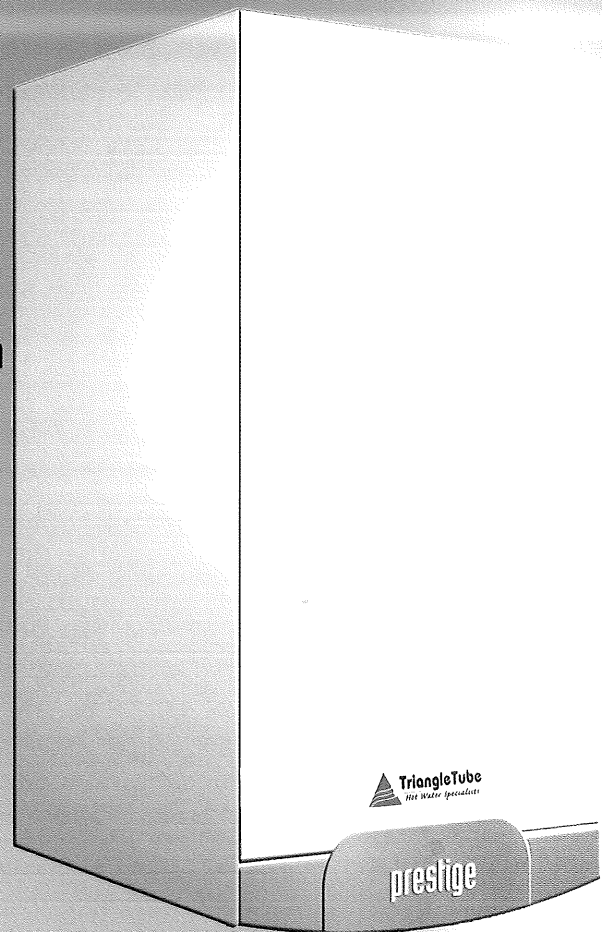
*Hot Water Specialists*

**prestige**

**Condensing High Efficiency**

**Stainless Steel Wall Mounted Gas Boiler**

- ✓ **95% AFUE - Energy Star Listed**
- ✓ **Fully Modulating**
- ✓ **Digital Display**
- ✓ **Direct Vent / Sealed Combustion**
- ✓ **Minimal Space Requirements**
- ✓ **Natural Gas or Propane**
- ✓ **Low NOx**
- ✓ **Higher Water Volume than Competitive Units**
- ✓ **Low Pressure Drop**
- ✓ **Quiet Operation**



**Comfortable Space Heating at the Lowest Possible Operating Cost**

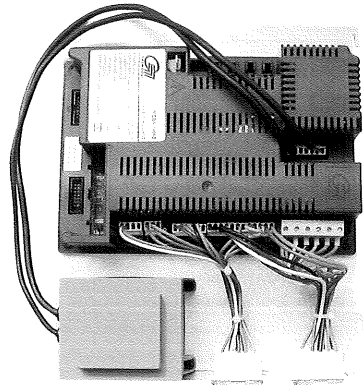
**Available in 4 Models  
Up to 399,000 Btu/Hr**







## MCBA Control



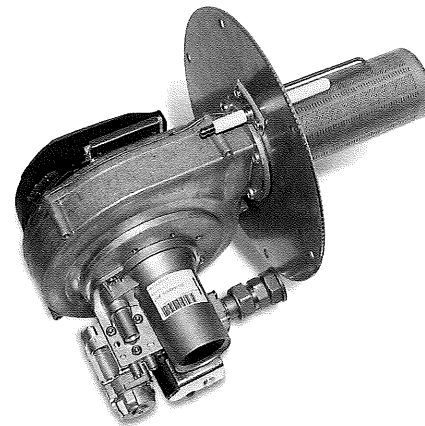
The Prestige uses a microprocessor electronic control module that automatically adjusts blower speed and gas flow rate to modulate boiler firing rate to closely match boiler output for space heating or DHW heating demand. The module responds to signals from the room thermostat, supply and return water temperature sensors, flue temperature sensor, domestic hot water aquastat and outdoor temperature sensor.

- Digital display module
- Ignition control
- Operating control
- High temperature limit protection
- Modulating temperature control
- Low water protection
- Outdoor reset
- Domestic hot water priority
- Two pump controls (Heating and DHW)
- Boiler freeze protection

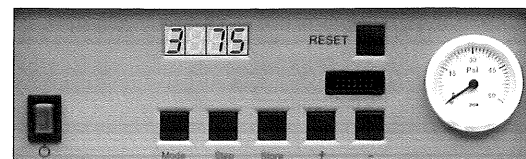
## Stainless Steel Premix Burner Assembly

High grade stainless steel burner uses pre-mixed air and gas providing a 25% to 100% modulating firing rate. The Prestige burner features a long life, quiet operation, reliable spark ignition, and clean combustion for low NOx applications.

The blower, gas valve and venturi provide the proper gas and air mixture for precise combustion. The blower pulls in air and gas through the venturi. The air and gas mix inside the blower and are pushed into the burner for combustion. The gas valve senses suction from the blower and allows gas to flow only if combustion air is flowing.

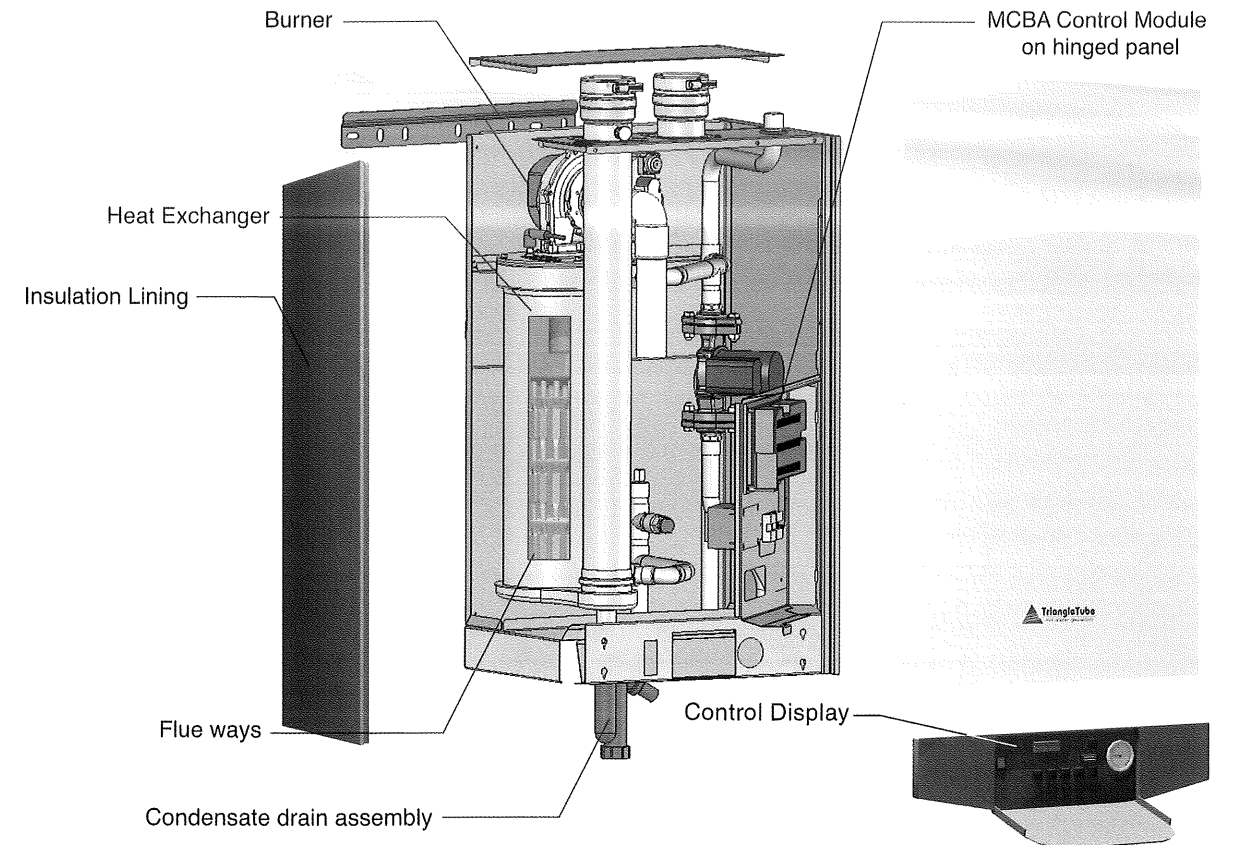


## Control Panel with Digital Display



A 4-digit user's Interface Module is provided to display system operating status and fully adjustable parameter values as well as diagnostic codes for easy troubleshooting and optimum system performance.

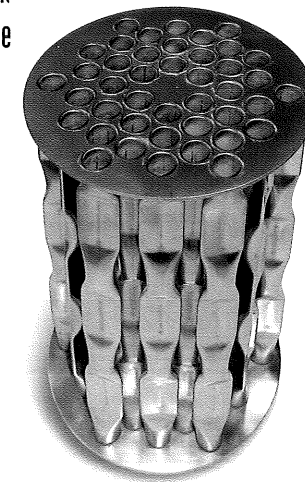
## Prestige Solo 110 Exploded View



The components of the Prestige are easily accessible for serviceability. The Solo 175, 250 & 399 are shipped less the circulator.

## Stainless Steel Heat Exchanger

A unique, highly efficient heat exchanger is at the heart of the Prestige.



- Unique geometry: 3 consecutive baffles direct water flow through the exchanger and around the combustion chamber.
- Highest water content in the industry
  - Stable temperature control
  - Less sensitive to water flow
- 439 Grade Stainless Steel. Unparalleled resistance to corrosion
- Less sensitive to sludge
- Self cleaning: condensate washes combustion residue away when streaming down the tubes resulting in a constant efficiency and reduced maintenance.
- Low pressure drop

## Performance Specifications

Model	Fuel	Input Modulation MBH	AFUE	DOE Heating Capacity MBH	NET I=B=R MBH	Water Volume Gal.
Solo 110	Natural Gas	30 to 110	95%	99	86	2.5
Solo 110 LP	Propane Gas	25 to 97	95%	87	76	2.5
Solo 175	Natural or Propane	50 to 170	95%	154	134	4.6
Solo 250	Natural or Propane	65 to 245	95%	223	194	4.1
Solo 399	Natural or Propane	112 to 399	95.1 %*	379	330	7



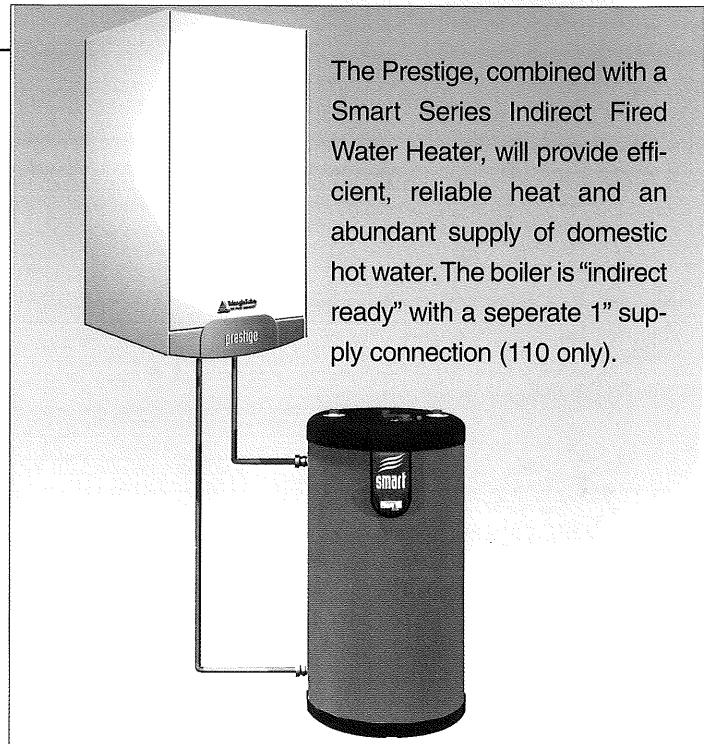
\*Thermal Efficiency

## Connections / Dimensions / Data

Model	Fuel	Supply / Return Connections	Gas Connection	Vent/Air Diameter	Dimensions D x W x H	Weight Lbs
Solo 110	Natural Gas/ Propane	1"	1/2"	3"	16"x 20" x 35 1/2"	106
Solo 175	Natural Gas/ Propane	1 1/4"	3/4"	3"	16"x 20" x 35 1/2"	131
Solo 250	Natural Gas/ Propane	1 1/4"	3/4"	3"	16"x 20" x 35 1/2"	142
Solo 399	Natural Gas/ Propane	1 1/2"	1"	4"	21 1/8"x 24 3/4" x 37 1/2"	200

## Standard Features

- Limited 10 year warranty
- Stainless steel heat exchanger
- Outdoor temperature sensor
- Stainless steel burner
- Negative pressure regulated gas valve
- 30 psi relief valve
- Flanged Grundfos 3-speed UP15-58 system circulator (110 only)
- Drain valve
- Pressure gauge
- Condensate drain assembly
- 24 V terminal strip with removable jumpers for manual reset or automatic reset of external controls
- NTC temperature sensors on the boiler supply/return and flue



The Prestige, combined with a Smart Series Indirect Fired Water Heater, will provide efficient, reliable heat and an abundant supply of domestic hot water. The boiler is "indirect ready" with a separate 1" supply connection (110 only).

### Optional Equipment

- Floor Stand • Wall Kit (399) • Condensate Neutralizer Kit
- Concentric Vent Kit • Direct Vent Sidewall Kit
- 5 and 10 Year Parts and Labor Plans

Triangle Tube reserves the right to make product changes or improvements at any time without notice.



**TriangleTube**  
Hot Water Specialists

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Member of



Group