City of Portland, Maine	e - Building or Use	Permi	t Application	n Perr	nit No:	Issue Date		CBL:	
389 Congress Street, 04101					09-1155			003 O0	02001
Location of Construction: Owner Name:				Owner Address:			Phone:		
1			NDRE H & ANTONI 56 LINDA ST						
Business Name:	Contractor Name	Contractor Name: Revision Energy LLC			Contractor Address: 142 Presumpscot street Portland			Phone	
	Revision Ener							2073231805	
Lessee/Buyer's Name Phone:				Permit Type:				_ _	Zone:
				HVA	'C				15-6
Past Use:	Proposed Use:			Permit Fee: Cost of Work:			k: C	EO District:	3 70
1		lential - install a Prestige		\$110.00 \$8,436.0		6.00	1	3,20	
				FIRE DEPT: INS			INSPECT	PECTION:	
				Denied Use			Use Grou	e Group: R3 Type: HVF	
						Demed			a a 🖘
							-+	RC Z	30 Z
Proposed Project Description:				1				\nearrow	,
install a Prestige SOLO 110					Signature: Sign			TRC 2003 nature: In 10/26/09	
				PEDESTRIAN ACTIVITIES DISTRIC			TRICT (P.	T (P.A.D.)	
			Acti		Action: Approved Approved w/Conditions				Denied
				Signature:			Γ	Date:	
Permit Taken By:	Date Applied For:	pplied For:			Zoning Approval				
Ldobson	1 2-			Zoning Approvai					
1. This permit application of	loes not preclude the	Spe	cial Zone or Revie	ws	vs Zoning Appeal			Historic Preservation	
1. This permit application does not preclude the Applicant(s) from meeting applicable State a Federal Rules.		☐ Shoreland			☐ Variance			Not in District or Landmark	
2. Building permits do not include plumbing, septic or electrical work.		□ w	etland	☐ Miscellaneous		aneous		Does Not Require Review	
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			☐ Flood Zone ☐ Conditional I		onal Use		Requires Review		
			Subdivision		☐ Interpretation			Approved	
		☐ Sit	te Plan		Approve	ed		Approved w/	Conditions
PERMIT IS	SSUED	Maj/	Minor Minor		Denied			Denied	
		[OK_		ha	_]_	`	
OCT 26	2009	Date:	10/21/	7	Date:		Date	: 	/_
	1		ι						
Other of Pos	Hand								
City of Por	tialiu								
			ERTIFICATION						
I hereby certify that I am the o I have been authorized by the jurisdiction. In addition, if a p shall have the authority to ente such permit.	owner to make this application of the community for work described	ication a	as his authorized application is is	d agent	and I agree certify that	to conform the code off	to all app icial's au	licable laws thorized repr	of this esentative
SIGNATURE OF APPLICANT			ADDRESS		DATE			PHONE	

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

FILL IN AND SIGN WITH INK



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

HRMIT ISSUED

OCT 2 6 2009

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 10/12/2005. ZS OBETEN ST PORTUNO ME OYICI
Name and address of owner of appliance $\frac{Alex}{NH}$	28 OBETER St PORTURD ME 04101
Installer's name and address Revision Energy PORTLAND, ME 04183	142 PESUMPSCOT ST Telephone 221-6342
Location of appliance: Basement Floor Attic Roof	Type of Chimney: Masonry Lined Factory built
Type of Fuel: Gas Oil Solid	☐ Metal Factory Built U.L. Listing #
Appliance Name: PRESTIGE SULE NO U.L. Approved Yes □ No	Dy Direct Vent Type UL# ASME RATEO
Will appliance be installed in accordance with the manufacture's installation instructions? ☑ Yes ☐ No IF NO Explain:	Type of Fuel Tank Oil Gas Size of Tank
The Type of License of Installer: Master Plumber # Solid Fuel # Oil # Gas # PNT \785 Other	Number of Tanks feet. Distance from Tank to Center of Flame feet. Cost of Work: \$ S
Approved Fire: Ele.: Bldg.: Signature of Installer	See attached letter or requirement October 1 Signature Date Approved

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

City of Portland, Main	e - Building or Use Permit	Permit No:	Date Applied For:	CBL:			
389 Congress Street, 0410	1 Tel: (207) 874-8703, Fax: (207) 874-8716	09-1155	10/16/2009	003 O002001		
Location of Construction:	cation of Construction: Owner Name:			Owner Address:			
28 OBRION ST	MAS ALEXANDRE I	1 & ANTONI	66 LINDA ST				
Business Name:	Contractor Name:			Contractor Address: 142 Presumpscot street Portland			
	Revision Energy LLC						
Lessee/Buyer's Name	Phone:	P	Permit Type:				
			HVAC				
Proposed Use:		Proposed	Project Description:				
2 unit residential - install a F	restige SOLO 110	install a	ll a Prestige SOLO 110				
Dept: Zoning S Note:	tatus: Approved with Condition	s Reviewer:	Marge Schmucka	l Approval D	Pate: 10/21/2009 Ok to Issue: ✓		
Dept: Building S Note:	tatus: Approved with Condition	s Reviewer:	Tom Markley	Approval D	Pate: 10/26/2009 Ok to Issue: ✓		
1) The appliance and venting	g shall be installed in accordance	with the UL listi	ng, IMC 2003 and	NFPA 211.			
2) The installation must con	nply with the State of Maine Gas	Regulations.					
3) Application approval ba	ed upon information provided by	applicant. Any d	eviation from appr	roved plans requires	s separate review		

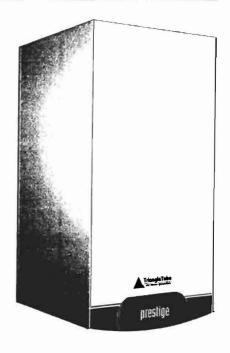
PERMIT ISSUED

OCT 2 6 2009

City of Portland



-psestige_ Solo 110 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 II - Combustion Air and Venting

Combustion Air Contamination

WARNING

If the PRESTIGE Solo 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 Solo 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 uncontamined outdoor air (piped directly to the appliance) for combustion)

For Direct Vent installations, involving only the PRESTIGE Solo, 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 Solo, 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 Solo 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 Solo, excluding the input of a Direct Vent PRESTIGE Solo 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 contaminates (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 Solo 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 Solo when located in the same space. Failure to provide or properly size the openings could result in severe personal injury, death or substantial property damage.



Methods of Accessing Combustion Air Into A Space - Category IV

Indoor Combustion Air

NOTICE

The methods listed in this section for accessing Indoor Combustion Air assume that the infiltration rate is adequate and not less than .40 ACH. For infiltration rates less than .40 ACH, reference the NFPA 54 National Fuel Gas Code for additional guidance.

Opening Size and Location

Openings used to connect indoor spaces shall be sized and located in accordance with the following see Fig. 1:

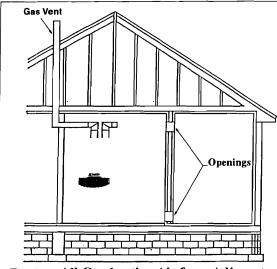


Fig. 1: All Combustion Air from Adjacent Indoor Spaces Through Indoor Combustion Openings

Combining spaces on the same story. Each opening shall have a minimum free area of 1 sq. in./1000 Btu/hr of the total input rating of all gas utilization equipment in the space, but not less than 100 sq. inches. One opening shall commence within 12 inches of the top, and one opening shall commence within 12

inches of the bottom of the enclosure. The minimum dimension of air openings shall be not less than 3 inches.

- Combining spaces in different stories. The volumes of spaces in different stories shall be considered as communicating spaces where such spaces are connected by one or more openings in doors or floors having a total minimum free area of 2 sq. in./1000 Btu/hr of total input rating of all gas utilization equipment.

Outdoor Combustion Air

BEST PRACTICES

Isolating the combustion appliance room from the rest of the building and bringing in uncontaminated outside air for combustion and ventilation is always preferred.

Opening Size and Location

The minimum dimension of air openings shall be not less than 3 inches

Openings used to supply combustion and ventilation air shall be sized and located in accordance with the following:

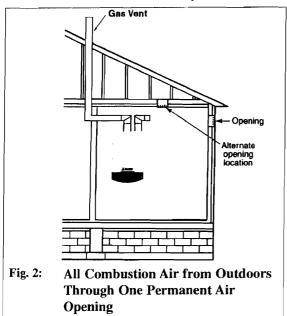
One Permanent Opening Method. See Fig. 2

One permanent opening, commencing within 12 in. of the top of the enclosure, shall be provided. The equipment shall have clearances of at least 1 inch from the sides and 6 in. from the front of the appliance. The opening shall directly communicate with the outdoors or shall communicate through a vertical or horizontal duct to the outdoors or spaces that freely communicate with the outdoors and shall have a minimum free area of the following:

- 1sq. in./3000 Btu/hr of the total input rating of all equipment located in the enclosures, and



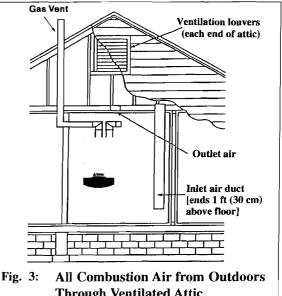
Not less than the sum of the areas of all vent connectors in the space.



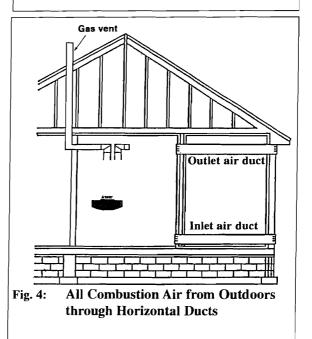
Two Permanent Openings Method.

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.



Through Ventilated Attic



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.

Combustion Air and Venting



Outdoor Opening(s) Location. Outdoor opening(s) shall be located in accordance with the Outdoor Combustion Air section.

Outdoor Opening(s) Size. Outdoor opening(s) shall be calculated in accordance with the following:

- The ratio of the interior spaces shall be the available volume of all communicating spaces divided by the required volume.
- The outdoor size reduction factor shall be 1 minus the ratio of interior spaces.
- The minimum size of outdoor opening(s) calculated in accordance with the above outdoor air section multiplied by the reduction factor. The minimum dimension of air openings shall not be less than 3 in.

DANGER

Do not install the PRESTIGE Solo into a common vent with other gas or oil appliances. This may cause flue gas spillage or appliance malfunction, resulting in possible severe personal injury, death or substantial property damage.

Combustion Air and Vent Piping

The PRESTIGE Solo requires a Category IV venting system, which is designed for pressurized venting and condensate.

The PRESTIGE Solo is certified per ANSI Z21.13 as a Category IV or Direct Vent (sealed combustion) appliance. A Category IV appliance utilizes uncontamined indoor or outdoor air (surrounding the appliance) for combustion. A Direct Vent appliance utilizes uncontaminated outdoor air (piped directly to the appliance) for combustion.

BEST PRACTICES

In order to reduce the potential risks associated with indoor contaminates (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.

NOTICE

Install combustion air and vent pipe as detailed in the PRESTIGE Solo Vent Supplement included in the boiler installation envelope. Refer to optional vent kit instructions for additional vent installation instructions.

DANGER

Verify installed combustion air and vent piping are sealed gas tight and meet all provided instructions and applicable codes, failure to comply will result in severe personal injury of death.