

2012-10-5274



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

423-A -2030

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. 76 ASHLEY LANE Use of Building RESIDENCE Date 10/22/12
 Name and address of owner of appliance SHERRY ALLEN
76 ASHLEY LANE, OCEAN WOODS CONDOMINIUMS, PORTLAND, ME 04103
 Installer's name and address CAROL WALTZ, 321 LINCOLN STREET, SO. PORTLAND,
ME 04106 Telephone 799-2228

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: PENSOFTI SOLENE PCC34

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

Type of Chimney:

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

Type of Fuel Tank

- Oil NA
- Gas

Size of Tank NA

Number of Tanks NA

Distance from Tank to Center of Flame NA feet.

Cost of Work: \$ 7,825.00

Permit Fee: \$ _____

5551

Approved

Approved with Conditions

Fire: _____
 Ele.: _____
 Bldg.: _____

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer

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

2. TECHNICAL CHARACTERISTICS

2.1 Technical data

Model		PCC 34
CE Certification	n°	0694BN3485
Appliance Type		B23p-B33-C13-C33-C43-C53-C63-C83-C93
Appliance Category		II2H3B/P
Heat Input max	kW - BTU/hr	34 - 116013
Heat Input min	kW - BTU/hr	10 - 34121
Heat Output max - 122/86°F	kW - BTU/hr	36.2 - 123670
Heat Output max - 176/140°F	kW - BTU/hr	33.4 - 114041
Heat Output min - 176/140°F	kW - BTU/hr	9.7 - 33200
Efficiency 100% (full load 122/86°F)	%	95
Efficiency 30% (partial load 122/86°F)	%	97.5
Efficiency 100% (full load 176/140°F)	%	87.7
Efficiency 30% (partial load 176/140°F)	%	88.9
GAS DIRECTIVE 92/42/ECC - Efficiency marking	stars	4
Sedbuk	band	A
Central Heating circuit		
Central Heating water temperature setting (min-max)	°C - °F	30-80 / 25-40 -- 86-176 / 77-104
Max. heating working temperature	°C - °F	80 - 176
Expansion vessel capacity	gal	1.85
Max. working pressure (heating)	bar - psi	2.1 - 30
Min. working pressure (heating)	bar - psi	0.3 - 4.29
Domestic Hot Water circuit		
D.H.W. temperature setting (min-max)	°C - °F	35-70 -- 95-160
Max. Hot water working pressure	bar - psi	6 - 86
Min. Hot water working pressure	bar - psi	0.5 - 7.16
D.H.W. flow rate at ΔT 45°F (25°C)	l/min - gal/min	19.96 - 5.27
D.H.W. flow rate at ΔT 54°F (30°C)	l/min - gal/min	16.63 - 4.40
D.H.W. flow rate at ΔT 63°F (35°C)	l/min - gal/min	14.26 - 3.77
Dimensions (Boiler casing size)		
Width	in	16.1
Height	in	28.7
Depth	in	12.2
Weight (net)	lb	88
Hydraulic connections		
Central Heating Flow connection	NPT	3/4"
Central heating Return connection	NPT	3/4"
Cold water mains connection	NPT	1/2"
D. Hot water connection	NPT	1/2"
Gas connection	NPT	1/2"
Flue systems		
Horizontal-Concentric flue system	Ø mm - in	80/125 - 3.15/5
Max. Flue length	m - ft	8 - 26
Gas Supply		
Natural gas G 20		
Inlet pressure	mbar - psi	20 - 0.29
Gas consumption	m ³ /h - ft ³ /h	3.60 - 127.13
Propane G31		
Inlet pressure	mbar - psi	37 - 0.53
Gas consumption	m ³ /h - ft ³ /h	1.38 - 48.73
Electrical specifications		
Power supply	V/Hz	110/60
Electrical power consumption	W	180
Electrical protection	IP	X4D

3.10 Venting

Improper venting of combination water heater can result in excessive levels of carbon monoxide which can result in severe personal injury or death. This combination water heater must be vented in accordance with the "Venting of Equipment" section of the latest edition of the ANSI Z223.1 / NFPA 54 Natural Gas Code and/or the "Venting systems and air supply for appliances" section of the latest version of the CAN/CSA B149.1 Natural Gas and Propane Installation Code in Canada and in accordance with all applicable local building codes.

Venting Guidelines

- For best results, keep the vent system as short and straight as possible.
- Locate the combination water heater as close as possible to the vent termination.
- The combination water heater vent must not be common vented with any other gas appliance or vent stack.
- Slope vent upwards towards the vent terminal at a rate of 1/8" per foot (1% slope).
- Vent termination must be a minimum of 12" above grade or expected snowfall.
- Vent and air intake pipe must be supported every 4 feet of horizontal run and every 5 feet of vertical run.

PENSOTTI and Direct Vent

All PENSOTTI Combination Water Heaters are prepared at the factory to be direct vent (sealed combustion) units which draw all of their required combustible air directly from outside the building.

All PENSOTTI Combination Water Heaters use a 3/5" concentric vent (polypropylene inner exhaust pipe with a painted aluminum outer pipe).

The exhaust vent material must only be polypropylene. Do not use anything other than polypropylene as a means of venting flue gases from the Pensotti Combination Water Heater.

Contaminated Make-Up Air Will Damage the Unit

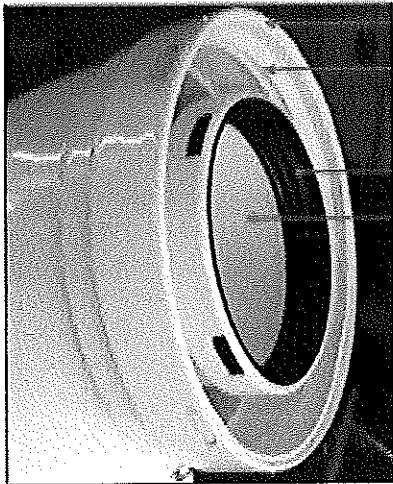
We recommend not operating the combination water heater in an area that is or will be under construction or renovation.

The PENSOTTI warranty will not cover damage and premature wear caused to the unit due to installation in a contaminated environment.

All concentric venting must be checking for cross contamination using a combustion analyzer inserted into the makeup air test port on the venting adapter. Analyzer must NOT read anything in excess of "0 ppm" Carbon Monoxide (CO). Any leaks must be repaired before continuing operation of the water heater.

Warranty will not be available if the water heater is used for construction heat.

Venting Pictures & Illustrations



- 5" Painted Aluminum
- EPDM Seal
- EPDM Seal
- 3.15" Polypropylene Pipe 240 Degree F Rating

Maximum Equivalent Vent Lengths

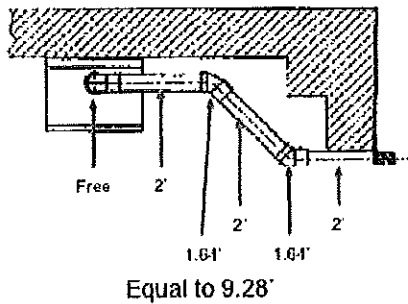
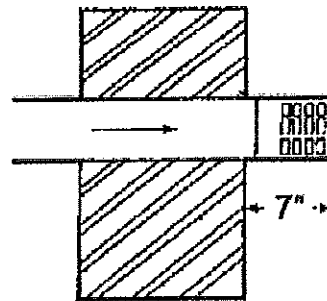
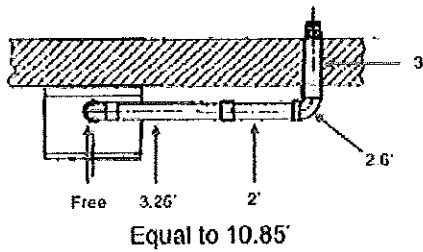
PC 18	29.25 Feet
PC 34	26 Feet
PC 50	16.25 Feet

Equivalent Fittings Lengths

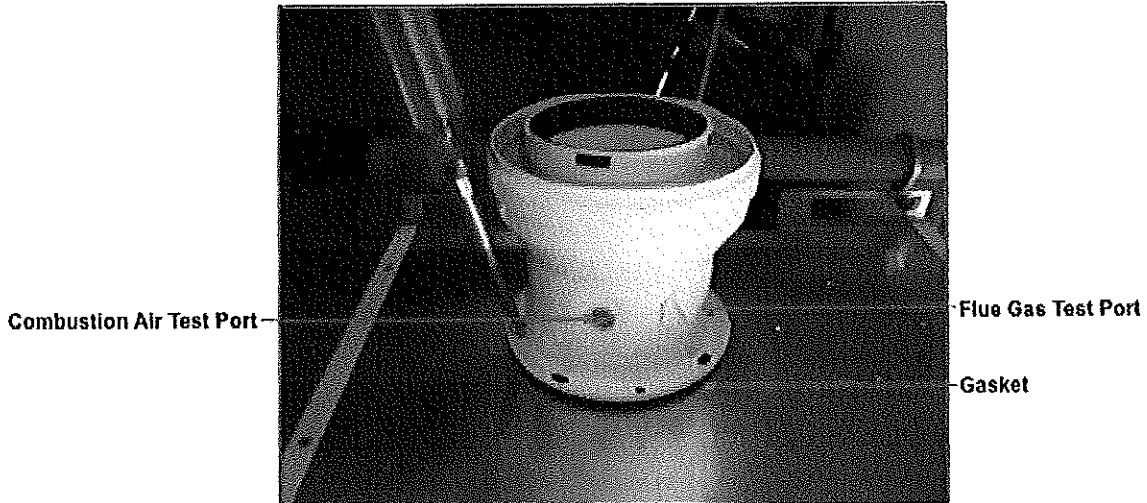
90 Degree Elbow	2.6 Feet
45 Degree Elbow	1.64 Feet
Extensions/Terminals	Measured Lengths

On **Horizontal** vent systems the 2/4" to 3.15/5" transition and first elbow are not calculated into the equivalent length of run.

On **Vertical** vent systems the vent termination is not calculated into the equivalent length of run.



Rotate Transition To Desired Position And Secure Using Screws Provided



Included With Each Combination Water Heater Is A PAHVK Horizontal Kit



Lubricate Rubber Gaskets, with Supplied Silicone Lubricant, and Install Venting Components. Fully Seat Then Secure With 2 - No. 8 x 1/2" Zinc Coated Screws

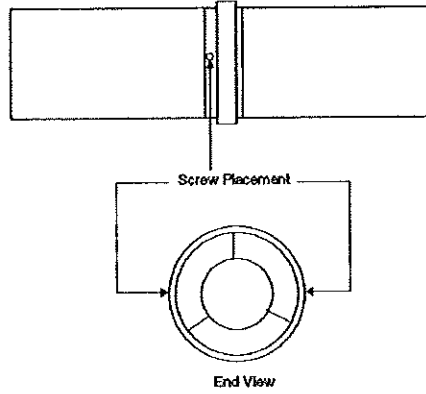
Do not over lubricate
Assemble immediately after lubrication



Pensotti Solenne Series Fastening of Venting Components

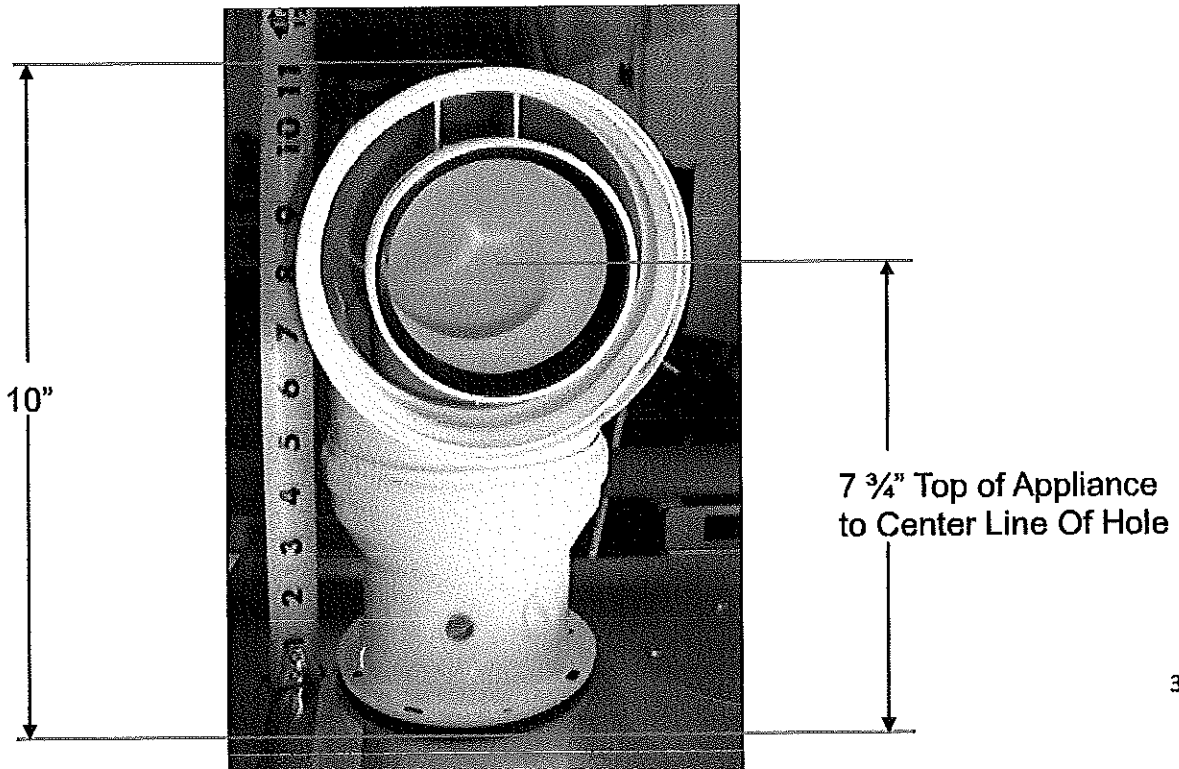
All concentric venting systems installed with Pensotti Solenne condensing wall mounted boilers must be fastened together to reduce the chance of the venting components separating.

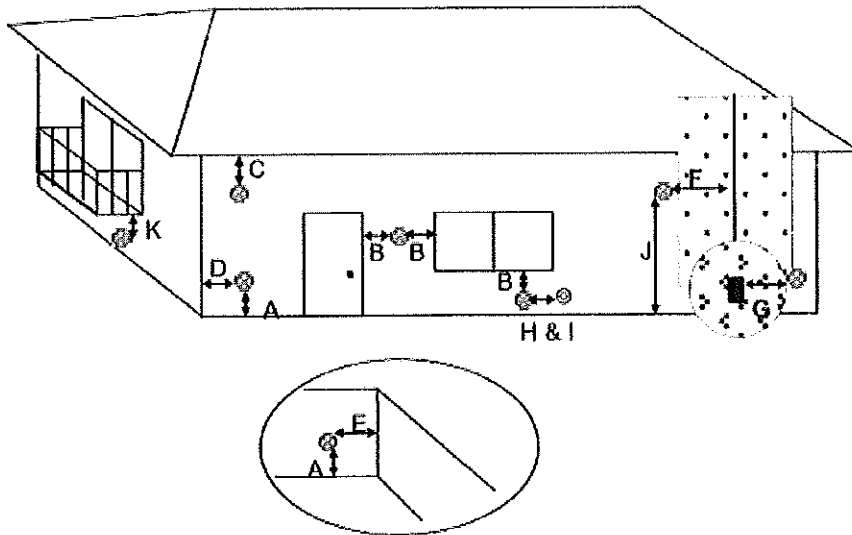
Two screws must be fastened through the outer air intake pipe, behind the gasket, at equal distances apart. The screws must be no longer than No. 8 x 1/2" sheet metal screws and must be zinc coated or stainless steel.



Be sure not to pierce the inner poly exhaust pipe.
Failure to comply with these instructions could result in property damage, personal injury or loss of life.

12" Clearance Suggested From The Top Of The Appliance To Ceiling





Direct Vent Termination Minimum Clearances	
A = 12"	Clearance above grade, snowline, deck, porch or balcony
B = 12"	Clearance to window or door that may be opened
C = 24"	Vertical clearance to ventilated and unventilated soffit within a 2' distance horizontally from center line of DV termination
D = 12"	Minimum distance to outside corner
E = 18"	Minimum distance to inside corner, included walls and fences.
F = 48"	Not to be installed above a gas meter/regulator within F from the center line of the meter/regulator
G = 48"	Minimum clearance to service regulator vent outlet, gas meter or electrical meter
H = 12"	Clearance to non-mechanical inlet air opening into the building
I = 36"	Clearance to a mechanical air inlet into the building
J = 84"	Minimum distance above a paved sidewalk or driveway located on public property. If terminal is located between two single family residences with a sidewalk or driveway between; the same 84" clearance applies.
K = 24"	Minimum clearance beneath porch, deck, veranda or balcony, only if the area below is completely open on at least two sides.

State and local codes may require different clearances, consult the local authority having jurisdiction in each area for details.

The vent hood must be installed on the leeward side of the structure. Avoid installing the vent hood on the side of the structure receiving normal prevailing winds.

The termination shall be located so that flue gasses, or condensate from the flues gasses, are not directed as to jeopardize people, building materials, building construction, siding or soffits. Flue gasses from the termination shall not be allowed to enter any type of structure.

The termination shall be located no less than 48" above or to the side of the exhaust for any other oil, gas or solid fuel appliance