

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

Permit No: 09-0918	Issue Date:	CBL: 403 D020001
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Location of Construction: 122 VIRGINIA ST	Owner Name: REED MONICA T	Owner Address: 122 VIRGINIA ST	Phone:
Business Name:	Contractor Name: Mackenzie, Stephen	Contractor Address: 74 Gertrude Ave Portland	Phone 2077977706
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R3

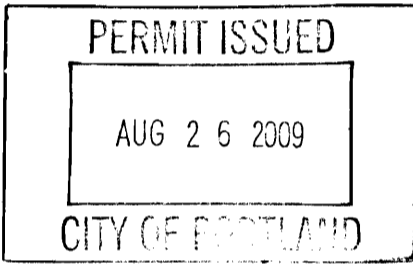
Past Use: Single Family Home	Proposed Use: Single Family Home - install a Trio Boiler in basement	Permit Fee: \$70.00	Cost of Work: \$4,500.00	CEO District: 4
Proposed Project Description: install a Trio Boiler in basement		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type: HVAC IMC-2003 Signature: JMB 8/26/09	
		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: 08/26/2009
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Zoning Approval

- 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..

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not in District or Landmark
<input type="checkbox"/> Wetland	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does Not Require Review
<input type="checkbox"/> Flood Zone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved
<input type="checkbox"/> Site Plan	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied
Date: JMB 8/26/09	Date:	Date: JMB



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

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

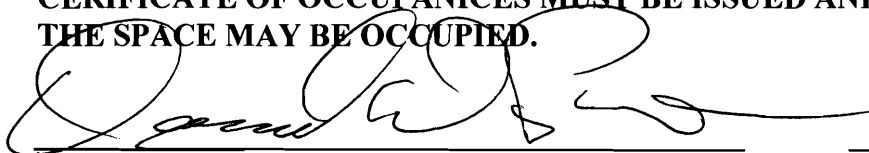
A Pre-construction Meeting will take place upon receipt of your building permit.

 X **Final inspection required at completion of work.**

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

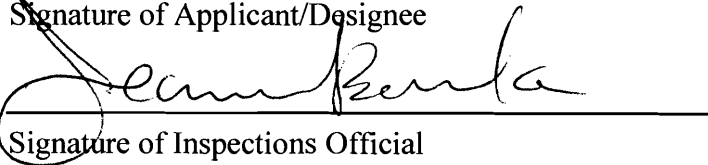
If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.



Signature of Applicant/Designee

Date



Signature of Inspections Official

Date

8/26/09

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Business Name:	Contractor Name: Mackenzie, Stephen	Contractor Address: 74 Gertrude Ave Portland	Phone: (207) 797-7706
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

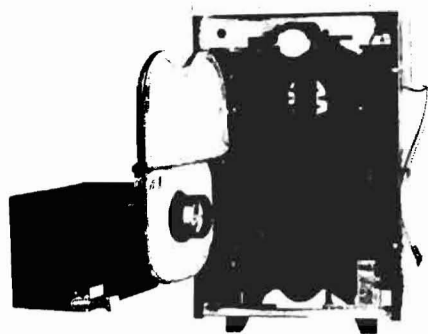
Proposed Use: Single Family Home - install a Trio Boiler in basement	Proposed Project Description: install a Trio Boiler in basement
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 08/26/2009
Note: **Ok to Issue:**

1) 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:** Jeanine Bourke **Approval Date:** 08/26/2009
Note: **Ok to Issue:**

1) Installation shall comply with 2003 International Mechanical Code and State of Maine Oil and Solid Fuel Board Laws and Rules



A unique front jacket panel designed for easy removal allows convenient access to a one-piece swing-out door. The door is both easily opened and completely removable from the vessel for internal inspection and overall maintenance. The TRIO boiler features oil and gas burners with a quick disconnect for servicing.



*Direct Vent Only: Models P3, P4, P5
**Energy Star rated

SPECIFICATIONS

PurePro Boiler Model #	Firing Rate (#2 Fuel)	PurePro Burner Model #	Burner	Input (btu/hr)	DOE Capacity (btu/hr)	NET IBR (btu/hr)	Net Rating (Sq. ft.)	AFUE Rating	Water Capacity
P3	0.75	707720 707724 707740 707730	Riello F5 Riello BF5* Beckett AFG Beckett NX	105,000	91,000	79,000	526	85.5**	3.6
		708830	Heat Wise SU2A	90,000	76,000	66,000		85.0**	
P4	1.00	707721 707724 707741 707731	Riello F5 Riello BF5* Beckett AFG Beckett NX	140,000	122,000	106,000	707	86.5**	4.3
		708831	Heat Wise SU2A	115,000	98,000	85,000		85.1**	
P5	1.25	707722 707724 707732	Riello F5 Riello BF5* Beckett NX	175,000	153,000	133,000	887	86.9**	5.1
		708832	Heat Wise SU2A	150,000	127,000	110,000		85.1**	
P6	1.50	707723 707733	Riello F5 Beckett NX	210,000	184,000	160,000	1067	86.9**	5.8
		708833	Heat Wise SU2A	175,000	148,000	129,000		85.1**	
P7	1.75	707734	Beckett CF375	245,000	208,250	181,100	1207	85.0**	6.5
		708834	Heat Wise SU2A		204,000	177,000		83.4	

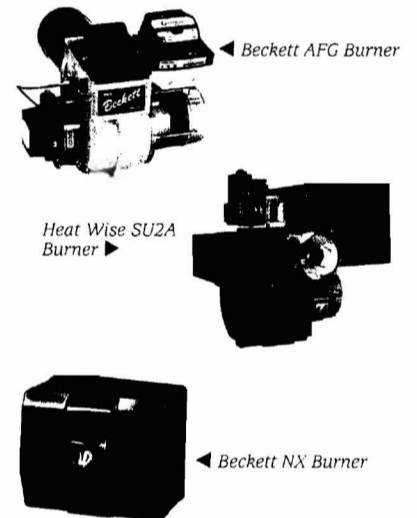
DIMENSIONS

PurePro #	Cabinet Height	Cabinet Width	Cabinet Length	Supply Outlet Height C.L.	Return Outlet Height C.L.	Flue Outlet Diameter	Flue Outlet Height C.L.
P3	28-7/8"	17-3/4"	19-1/4"	25-3/8"	4-1/2"	6"	20-3/4"
P4	28-7/8"	17-3/4"	22-3/4"	25-3/8"	4-1/2"	6"	20-3/4"
P5	28-7/8"	17-3/4"	26-1/4"	25-3/8"	4-1/2"	6"	20-3/4"
P6	28-7/8"	17-3/4"	29-3/4"	25-3/8"	4-1/2"	6"	20-3/4"
P7	28-7/8"	17-3/4"	33-1/4"	25-3/8"	4-1/2"	6"	20-3/4"

ONE STEP
CLOSER
TO
GREEN!



Available Oil/Gas Burners



TRIO by PurePro

www.trioboiler.com

PPRH3D/5000/109


A Blend of Technology and Efficiency

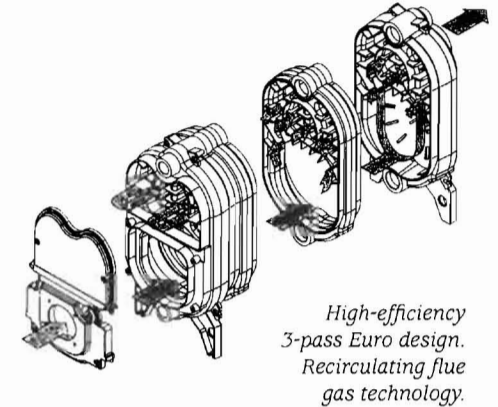
The TRIO is a low mass boiler with steel push nipples. The unique turn-around design of the rear casting creates optimal flue gas passages through the boiler, creating high efficiency. There are no baffles to remove, and the flue passages are easily accessible for cleaning and servicing. The TRIO boiler is Energy Star rated with efficiencies to 87%.



Shown with Riello Burner and Energy Manager Plus.

Features:

- ▶ 3-pass low mass design
- ▶ GG20 cast iron
- ▶ Recirculating flue gas technology
- ▶ Energy Star Rated 
- ▶ High efficiency to 87%
- ▶ Superior serviceability with complete access to all flue passages
- ▶ Limited Lifetime Warranty
- ▶ Direct vent capabilities



High-efficiency 3-pass Euro design. Recirculating flue gas technology.

Maximize System Efficiency With Your Choice of TRIO Energy Managers

TRIO Energy Manager / TRIO Energy Manager Plus Features:

- Independent test results show burner run time is reduced by 10% - 20%, and the number of burner on/off cycles is reduced by 30%.
- Integrated Microprocessor Economizer for fuel savings.
- Indoor reset technology.
- A minimum of 10% reduction in heating fuel usage—guaranteed!

See triboiler.com for details.

TRIO Energy Manager



TRIO Energy Manager Plus



TRIO Energy Manager Plus Additional Features:

- Multiple zone system control
- Zone valve or circulator capability
- Priority capability for abundant, rapid hot water
- LCD screen displays runtime estimated savings, operating modes, and operating temperatures

Abundant, Rapid Hot Water Heating

PurePro® offers a complete line of indirect water heaters to complement the TRIO boiler. By utilizing the TRIO boiler as its heat supply, the burner fires only when necessary and transfers heat from the TRIO boiler to the water heater through a highly efficient heat exchanger.



FEATURES

- Available in 40- and 80-gallon models.
- Includes Taco 007 circulator with built-in priority relay and flow check. Circulator pre-plumbed and wired to control.
- Includes 8ft. of metal-shielded 14-gauge conduit with wire nuts and connectors.
- Factory installed piping with 3/4" sweat unions.
- Control, T&P and drain pre-installed.
- Reversible design for maximum flexibility.
- Maximized Heat-Transfer Technology – 8 times faster than cupronickel, 25 times faster than stainless steel.
- Maximized height/diameter spacing to create a chimney effect of thermal currents which scrubs more heat into the water faster.
- High output capabilities to handle larger demands.
- Available with Limited Lifetime or 6-year Transferable Warranty.



Proudly
Manufactured in
the USA

Plug n' Go

by **PurePro**®



The **Plug n' Go** by PurePro® is the most complete indirect water heater package available. It takes installation to a new level of simplicity with all accessories factory installed and ready to run. All piping and wiring connections are placed at an easy working height, while sweat unions make plumbing simple. A factory-installed T&P and dial aquastat are included with every unit. The tank uses a seamless plastic liner that will not crack, chip or peel. This polyethylene reservoir is surrounded by high-density urethane insulation and enclosed in a steel outer shell with a durable appliance-like finish. The **Plug n' Go** by PurePro® even includes a pre-installed 1/4" turn drain. With this PurePro® indirect, you're ready for any installation, simply **Plug n' Go**.

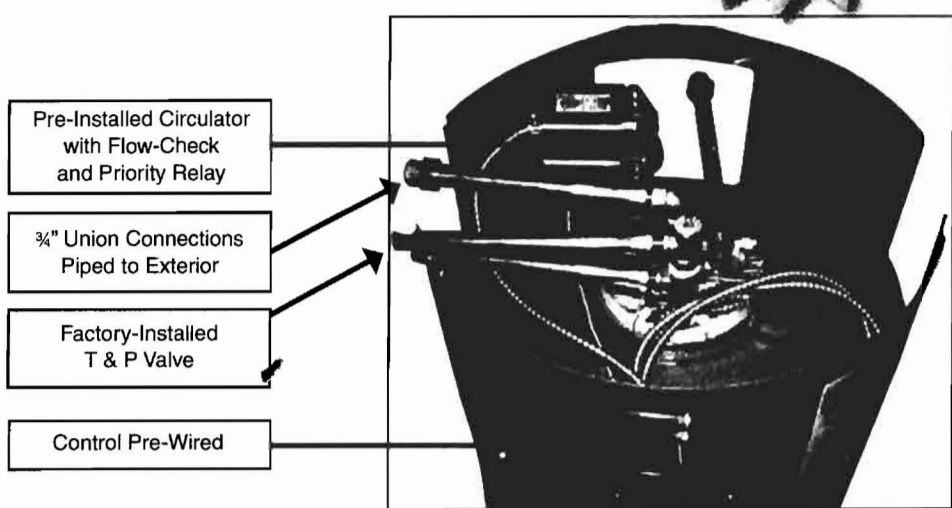
Removable Heat Exchanger

- High-performance in a durable package.
- Brass plate and cold water inlet pipe provide a strong connection and meet stringent safety codes.
- Threaded black iron pipe for the boiler supply and return withstand rough handling and require no back-up wrench.
- Low pressure drop – multiple coil passes allow the use of standard circulator. No large, expensive pump necessary.

Plug n' Go

by **PurePro**

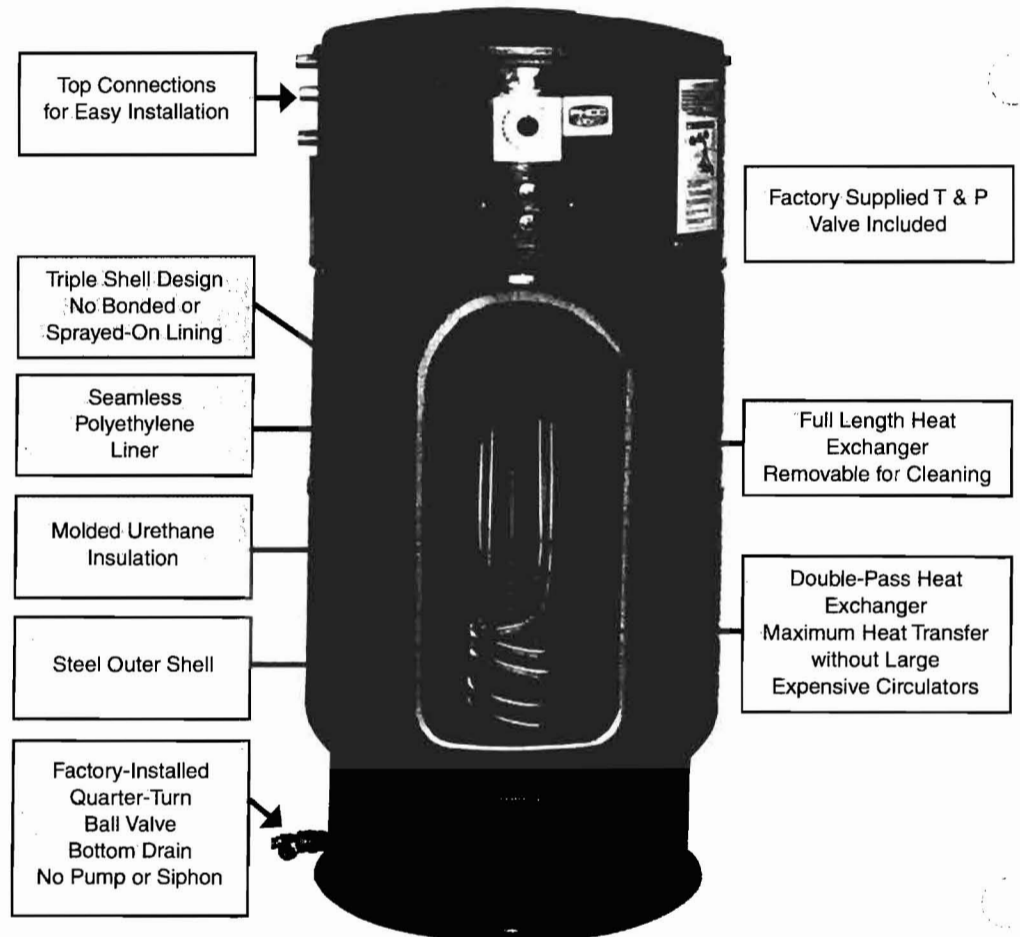
All units include 18 ft. of pre-installed conduit with connectors and wire nuts.



PERFORMANCE		
BOILER OUTPUT	1	2
	FIRST-HOUR RATING (90°F rise)	CONTINUOUS FLOW (70°F rise steady state)
BTU/HR	GPH	GPH
Model# PRO41ZPG		
40,000	89	69
60,000	116	104
80,000	143	139
100,000	170	173
120,000	197	208
140,000	224	242
Model# PRO80ZPG		
40,000	120	69
60,000	147	104
80,000	174	139
100,000	201	173
120,000	228	208
140,000	255	242

SPECIFICATIONS	
Model # PRO41ZPG	
Capacity (Gallons):	41
Height (Inches):	51
Diameter (Inches):	22
Shipping Wgt./Lbs.	145
Cold Water Inlet:	3/4" sweat union
Hot Water Inlet:	3/4" sweat union
Boiler Supply:	3/4" sweat union
Boiler Return:	3/4" sweat union
Warranty:	6-Year Transferable*
Model # PRO80ZPG	
Capacity (Gallons):	80
Height (Inches):	57
Diameter (Inches):	26
Shipping Wgt./Lbs.	195
Cold Water Inlet:	3/4" sweat union
Hot Water Inlet:	3/4" sweat union
Boiler Supply:	3/4" sweat union
Boiler Return:	3/4" sweat union
Warranty:	6-Year Transferable*

*6-year warranty is upgraded to Limited Lifetime by purchasing kit. See your F.W. Webb branch for details.



www.pureproproducts.com

500-3H-1106