

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

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

Permit No: 06-1612	Issue Date: 11/02/2006	CBL: 344 D004001
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Location of Construction: 20 PENNELL AVE	Owner Name: ANDERSON AMY S & JOHN J JO	Owner Address: 20 PENNELL AVE	Phone:
Business Name:	Contractor Name: Avery Services, Inc.	Contractor Address: 7 Thomas Drive Westbrook	Phone 2077728687
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: Single Family Home	Proposed Use: Single Family Home - install replacement boiler Weil-Mclain Boiler in basement	Permit Fee: \$70.00	Cost of Work: \$4,879.00	CEO District: 5
		FIRE DEPT: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied	INSPECTION: Use Group: U Type: HVAC	
		Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	

**Proposed Project Description:**  
install replacement boiler Weil-Mclain Boiler in basement

**PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)**  
Action:  Approved  Approved w/Conditions  Denied  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Permit Taken By: ldobson	Date Applied For: 11/02/2006	<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 checked="" 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: 11/3/06	<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: 11/3/06
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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.

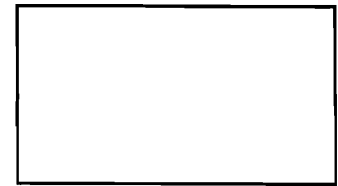
\_\_\_\_\_  
SIGNATURE OF APPLICANT ADDRESS DATE PHONE

\_\_\_\_\_  
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



06-16-12

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 BREARD 34 D 4 Use of Building Dwelling Date 11-2-06  
 Name and address of owner of appliance JOHN JOHNSTON  
20 Pennel Portland ME  
 Installer's name and address Avery Services Inc  
? THOMAS DR. Telephone 772 8687

**Location of appliance:**

- Basement
- Attic
- Floor
- Roof

**Type of Fuel:**

- Gas
- Oil
- Solid

Appliance Name: Wiel-Mc/air

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 # MS30003497
- Gas # \_\_\_\_\_
- 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 275

Number of Tanks 1

Distance from Tank to Center of Flame 10 feet.

Cost of Work: \$ \_\_\_\_\_

Permit Fee: \$ \_\_\_\_\_

**Approved**

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

**Approved with Conditions**

- See attached letter or requirement

Signature of Installer Peter Reynolds Inspector's Signature \_\_\_\_\_ Date Approved \_\_\_\_\_

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<b>Location of Construction:</b> 20 PENNELL AVE	<b>Owner Name:</b> ANDERSON AMY S & JOHN J JO	<b>Owner Address:</b> 20 PENNELL AVE	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Avery Services, Inc.	<b>Contractor Address:</b> 7 Thomas Drive Westbrook	<b>Phone</b> (207) 772-8687
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	

<b>Proposed Use:</b> Single Family Home - install replacement boiler Weil-Mclain Boiler in basement	<b>Proposed Project Description:</b> install replacement boiler Weil-Mclain Boiler in basement
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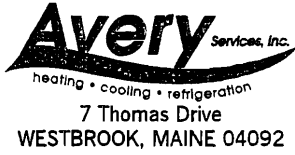
**Dept:** Zoning      **Status:** Pending      **Reviewer:**      **Approval Date:**  
**Note:**      **Ok to Issue:**

**Dept:** Building      **Status:** Approved with Conditions      **Reviewer:** Tammy Munson      **Approval Date:** 11/03/2006  
**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

# PROPOSAL

1388



(207) 772-8687  
FAX (207) 874-0933

TO: John Johnson  
20 Pannel Street  
Portland ME 04103

PHONE <b>878-2378</b>	DATE <b>10/16/06</b>
JOB NAME / LOCATION <b>Steam Boiler Replacement</b>	
JOB NUMBER <b>PAR</b>	JOB PHONE

We hereby submit specifications and estimates for:

Avery Services, Inc. is pleased to provide you with a quote on replacing your steam boiler. Scope of work as follows:

- Drain and remove old boiler and domestic water storage tank.
- Supply and install a Weil-McLain SGO4 cast iron boiler and burner with domestic hot water coil.
- Reuse existing low water cut-off and automatic feed.
- A Hartford loop for safety will be installed on return piping to boiler.
- Smoke pipe and wiring will be upgraded to meet codes.
- Price includes; labor, taxes, permits, and start up.

**EXCLUSIONS:** Adequacy of existing systems.

**We Propose** hereby to furnish material and labor — complete in accordance with the above specifications, for the sum of:  
**Four Thousand Eight Hundred Seventy Nine and 00/100 Dollars** dollars (\$) **4,879.00** .

Payment to be made as follows:

**\$1,219.75 upon acceptance - Progress billing/net 10 days - All balances due upon substantial completion.**  
**If payment is not made as outlined above, a service charge of 2% per month on the overdue balance plus all reasonable costs of collection, including attorney's fees will be paid.**

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Worker's Compensation insurance.

Authorized Signature

*Be Ury, Pres*  
Note: This proposal may be withdrawn by us if not accepted within 30 days.

**No promises, agreements or representations of any solicitor or employee of the seller shall be binding upon the seller unless made a part of this order in writing.**

**Acceptance of Proposal** — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature \_\_\_\_\_

Signature \_\_\_\_\_

Date of Acceptance: \_\_\_\_\_

# WEIL-McLAIN

**SGO**

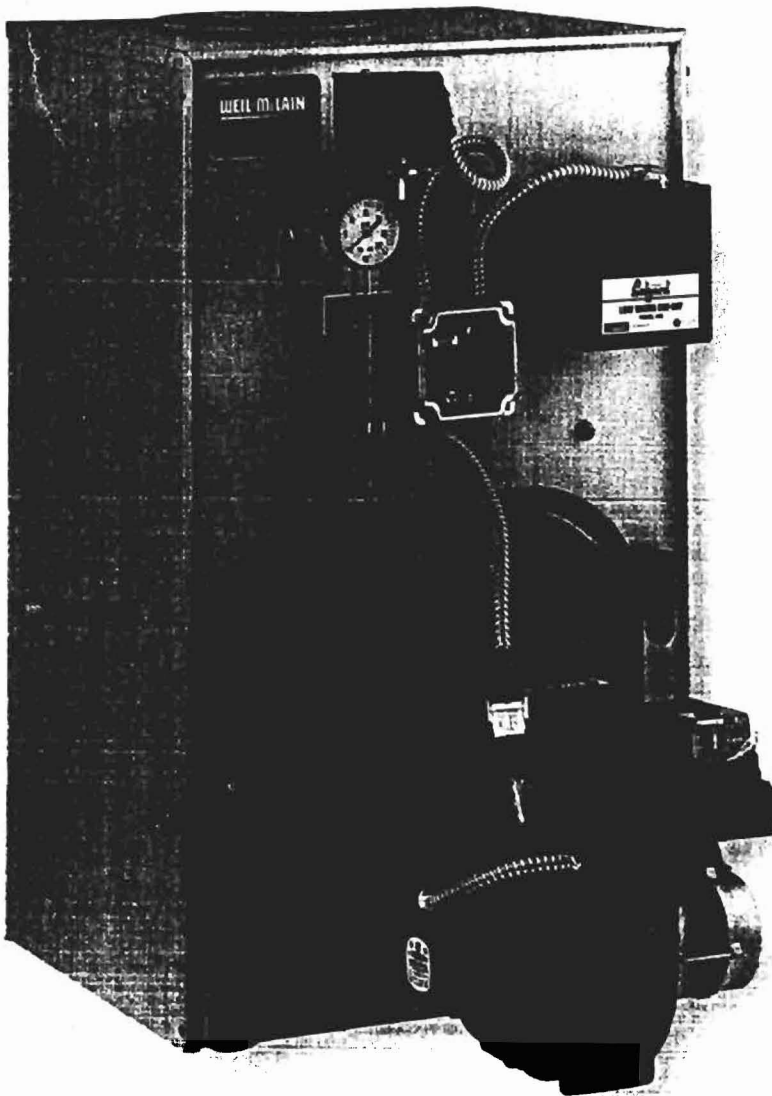
Oil-Fired  
Steam Boiler  
with tankless opening

an ISO 9001 Certified Company

# SGGO

GOLD Series 3

## OIL-FIRED Steam BOILER WITH TANKLESS HEATER OPENING



### Ratings — (8 sizes)

354 – 921 SQ FT NET STEAM

0.95 – 2.55 GPH #2 FUEL OIL

- Specifically designed for steam**  
Large water content; longer steaming times
- High efficiency**  
Save fuel with 85% & higher AFUE
- Convertible flue (rear/top)**  
Easy switch from rear to top flue
- Swing-away burner door**  
Easy to open or remove; full access to chamber
- Easy inspection & cleaning**  
Quick-open cover; top cleaning full width
- Factory-wired circulator**  
Circulator harness wired; circulator ships loose
- Service switch**  
Easy power disconnect for servicing boiler
- Recessed target wall**  
Design protects target wall from flue brush
- Captured seal nipple port design**  
Grooves protect seals from contaminants
- Burner shipped separately**  
... for maximum flexibility



# Ratings



DOE



# Equipment

Boiler model number	I=B=R burner capacity GPH Note 1	DOE heating capacity MBH		Net I=B=R ratings Notes 3 & 5			DOE seasonal efficiency % AFUE		Tankless heater intermittent draw GPM (Note 6)	Draft loss through boiler inches w.c. Note 7	Minimum I=B=R chimney size		
		Notes 2, 3, 4		Steam		Water	Steam	Water			Rectangular Inches	Round inches	Height feet
		Steam	Water	SQ FT	MBH	MBH	Steam	Water					
*-SGO-3-***	0.95	114	115	354	85	100	84.1	85.3	3.25	.020	8 x 8	7	15
*-SGO-4-***	1.20	144	145	450	108	126	84.0	85.0	3.75	.010			
*-SGO-5-***	1.45	174	175	546	131	152	83.9	85.0	4.00	.015			
*-SGO-6-***	1.75	210	212	658	158	184	83.7	85.0	4.25	.015	8 x 12	8	20
*-SGO-7-***	2.00	240	242	750	180	210	83.6	85.0	5.50	.015			
*-SGO-8-***	2.30	266	266	833	200	231	--	--	5.75	.020			
*-SGO-9-***	2.55	295	295	921	221	257	--	--	6.00	.030			

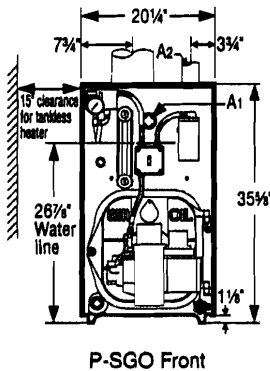
\* Substitute "P" for package steam boiler (SGO-3 through SGO-8 only — Packaged water boiler not available). Substitute "A" for boiler only.  
 \*\* Add "W" for SGO boiler with water trim.  
 1. No. 2 fuel oil — Commercial Standard Spec. CS75-56. Heat value of oil — 140,000 BTU/Gal.  
 2. Based on standard test procedures prescribed by the United States Department of Energy at combustion condition of 13 1/2% CO<sub>2</sub> and -0.02" W.C. draft.  
 3. MBH refers to thousands of BTU per hour.  
 4. Rating under "DOE Heating Capacity" for SGO-8 and -9 is I=B=R gross output. DOE ratings do not apply to boilers above 300 MBH.

5. Net I=B=R ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pickup. Steam ratings are based on a piping and pickup allowance of 1.333; water ratings on an allowance of 1.15. An additional allowance should be made for unusual piping and pickup loads. Consult a Weil-McLain representative.  
 6. All boiler sizes use number 35-S-29 tankless heater. Tankless heater rating is in gallons water per minute, heated from 40°F to 140°F with 200°F boiler water temperature — tested in accordance with I-W-H Testing and Rating Standard for Indirect Tankless Water Heaters Test with Boilers.  
 7. Listed draft losses are for standard burner settings.

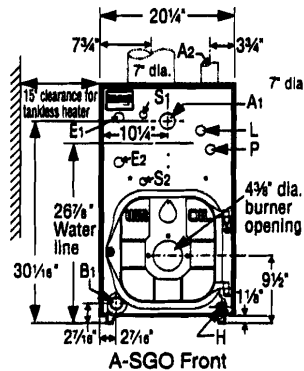
# Dimensions

Boiler model number	Supply "C" (inches)		Return (inches)		Dimensions (inches)			Approximate shipping weight (lbs) (Note 1)	Tankless heater # 35-S-29 Tappings
	Steam	Water	Steam	Water	A	B	L		
SGO-3					—	13 1/2	16 1/2	600	Inlet and outlet 3/4" NPT  Temperature control tapping 3/4" NPT
SGO-4	1-2 1/4	1-1 1/4	2	1 1/2	—	16 3/4	20	705	
SGO-5					—	19 1/4	23 1/4	820	
SGO-6					19	23	26 1/4	920	
SGO-7					22 1/4	26 1/4	29 3/4	990	
SGO-8	2-2 1/4	1-1 1/4	2	1 1/2	25 1/4	29 1/4	32 1/4	1,090	
SGO-9					28 3/4	32 3/4	35 3/4	1,195	

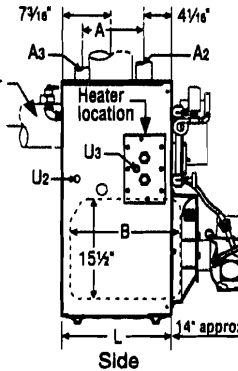
Crata Dimensions: Height — 39 Width — 23 Length (\*SGO-3, -4) — 37 / (\*SGO-5, -6) — 43  
 Note 1: Weights based on P-SGO units 3 — 6 and A-SGO units 7 — 9 with all components including burner.



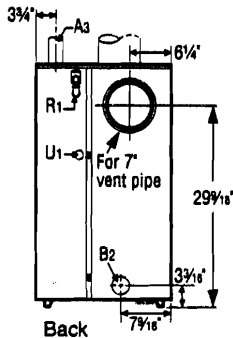
P-SGO Front



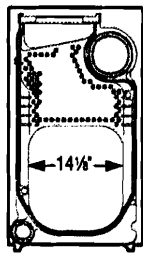
A-SGO Front



Side



Back



Intermediate

Tapping	Size	Steam
A <sub>1</sub>	1 1/2	Skim tapping
A <sub>2</sub>	2 1/2	Supply
A <sub>3</sub>	2 1/2	Supply (SGO-6 thru 9)
B <sub>1</sub>	1 1/2	Plugged
B <sub>2</sub>	2	Return
E <sub>1</sub>	1/2	Pressure gauge & limit control (when probe LWCO is used)
E <sub>1</sub> & E <sub>2</sub>	1/2	Low water cutoff (float-type)
H	3/4	Drain valve
L	3/4	Pressure gauge & limit control (when float LWCO is used)
P	3/4	Low water cutoff (probe-type)
R <sub>1</sub>	3/4	Relief valve
S <sub>1</sub> & S <sub>2</sub>	1/2	Gauge glass
U <sub>1</sub>	1	Take-off for indirect-fired water heater or separate zone
U <sub>2</sub>	3/4	Tankless heater operating control (SGO-6 thru 9)
U <sub>2</sub> '	3/4	Tankless heater operating control (SGO-3 thru 5)

Water
Supply
Piping to expansion tank or automatic air vent
Plugged
Return
Plugged
Pressure/temperature gauge
...
Drain valve
High limit/circulator control
Plugged
Relief valve
Plugged
Plugged
Plugged
Tankless heater operating control

## Standard Equipment, All units

- Limited 10-year warranty on boiler sections
- Factory tested
- Factory-assembled cast iron sections with the following parts installed. (Jacket and collector hood are not assembled on 7-, 8- and 9-section blocks.)
  - Insulated steel jacket
  - Aluminized steel flue collector hood with flue cap on top outlet
  - Swing-away burner mounting door
  - Refractory blanket and target wall in combustion area
  - Heater opening cover plate
- Electrical junction box with wiring harnesses
- Junction box cover plate with service switch
- Two vent pipe brackets
- Drain valve
- Balanced draft damper

## SGO steam boilers

- High limit pressure control
- Low water cutoff (float or probe type) — P units only
- 15 PSIG ASME safety valve (boiler sections tested for 15 PSIG steam working pressure)
- Steam pressure gauge
- Siphon
- Gauge glass, cocks and guard

## SGO-W water boilers

- Built-in air separator
- High limit control with circulator relay
- Pressure/temperature gauge
- 30 PSIG ASME relief valve (boiler sections tested for 50 PSIG working pressure)

## Optional Equipment

- High-efficiency flame-retention oil burner (Beckett AFG, Carlin EZ or Riello). Specify 2-stage fuel unit (optional) if required.
- Low water cutoffs (float or probe type)
- Tankless heaters and controls
- Weil-McLain 5-year or 10-year Homeowner Protection Plan
- Weil-McLain Indirect-Fired Water Heaters

In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.



Locate our Sales Offices by visiting our website:  
[www.weil-mclain.com](http://www.weil-mclain.com)

Weil-McLain  
 500 Blaine Street  
 Michigan City, IN 46360-2388