

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that ARTHUR & DEBORAH JTS» JOHNSON

Located At 37 CODMAN

Job ID: 2011-08-1914-HVAC

CBL: 129 - - G - 019 - 001 - - - -

has permission to Install Weil-McCain boiler

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY  
PENALTY FOR REMOVING THIS CARD**

*[Handwritten signature and date 8/10/11]*

## BUILDING PERMIT INSPECTION PROCEDURES

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

or email: [buildinginspections@portlandmaine.gov](mailto:buildinginspections@portlandmaine.gov)

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

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

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

Job No: 2011-08-1914-HVAC	Date Applied: 8/5/2011	CBL: 129 - - G - 019 - 001 - - - - -	
Location of Construction: 37 CODMAN ST	Owner Name: ARTHUR & DEBORAH JTS JOHNSON	Owner Address: 37 CODMAN ST PORTLAND, ME - MAINE 04103	Phone:
Business Name:	Contractor Name: , GEORGE F DOUGHTY P & H	Contractor Address: 4 KINGFISHER DR BRUNSWICK MAINE 04011	Phone: 798-5991
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-3
Past Use:  Single family dwelling	Proposed Use:  Same: single family dwelling - to install Weil-McCain boiler	Cost of Work: \$8000.00	CEO District:
		Fire Dept:  Approved Denied N/A	Inspection: R-3 Use Group: Type: HVAC Signature: 8/10/11
Proposed Project Description: Install a Weil - McLain Boiler		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Lannie		<b>Zoning Approval</b>	

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>OK S</i> <i>8/9/11</i>	<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:	<input checked="" type="checkbox"/> Not in Dist 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: <i>S</i>

**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	PHON



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

RECEIVED

AUG - 5 2011

2011-08-19

29-6-19-21

Dept. of Building Inspections  
City of Portland Maine

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 RESIDENCE Date 8-5-11  
 Name and address of owner of appliance ARTHUR JOHNSON 37 CODMAN ST  
PORTLAND MAINE  
 Installer's name and address GEORGE F. DOUGATY PTH, INC. 4 KINGFISHER DR  
BRUNSWICK, MAINE 04011 Telephone 207-798-5991

### Location of appliance:

- Basement
- Floor
- Attic
- Roof

### Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: WEIL-MCCAIN

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 # MS 30011525
- 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 15 feet.

Cost of Work: \$ 8000

Permit Fee: \$ 100

### Approved

Fire: \_\_\_\_\_

Ele.: \_\_\_\_\_

Bldg.: \_\_\_\_\_

### Approved with Conditions

- See attached letter or requirement

Inspector's Signature \_\_\_\_\_

Date Approved \_\_\_\_\_

Signature of Installer

George Dougaty

White - Inspection

Yellow - File

Pink - Applicant's

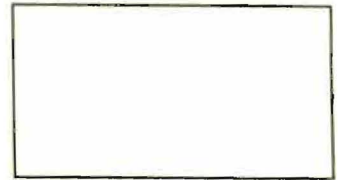
Gold - Assessor's Copy





FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



2011-08-19 14  
129-63-1921

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: R-3

Location / CBL \_\_\_\_\_ Use of Building RESIDENCE Date 8-5-11  
 Name and address of owner of appliance ARTHUR JOHANSON 37 CEDARIAN ST  
PORTLAND MAINE  
 Installer's name and address GEORGE F. DOUGATY P/H, INC. 4 WINDFISHIER DR  
BRUNSWICK, MAINE 04011 Telephone 207-795-5991

### Location of appliance:

- Basement
- Floor
- Attic
- Roof

### Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: WEIL-MCCAIN

U.L. Approved  Yes  No

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

IF NO Explain: \_\_\_\_\_

RECEIVED

AUG - 5 2011

### The Type of License of Installer:

- Master Plumber # \_\_\_\_\_ Dept. of Building Inspections  
City of Portland Maine
- Solid Fuel # \_\_\_\_\_
- Oil # MS 30011525
- 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 15 feet.

Cost of Work: \$ 8000

Permit Fee: \$ 100

### Approved

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

### Approved with Conditions

- See attached letter or requirement

Inspector's Signature \_\_\_\_\_

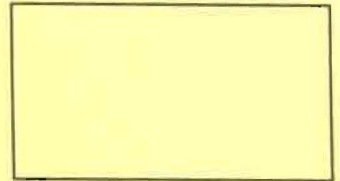
Date Approved \_\_\_\_\_

Signature of Installer \_\_\_\_\_



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



7-1-08-1914  
129-65-11-21

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: **R-3**

Location / CBL \_\_\_\_\_ Use of Building RESIDENCE Date 7-5-11

Name and address of owner of appliance ARTHUR JOHNSON 22 CEDAR ST  
PORTLAND, MAINE

Installer's name and address CAROL E. BOUCHER 111 W. 11TH ST  
PORTLAND, MAINE 04101 Telephone 553-745-9991

### Location of appliance:

- Basement
- Attic
- Floor
- Roof

### Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: WEL-MCCOIN

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 # ME 30011535
- 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 375

Number of Tanks 1

Distance from Tank to Center of Flame 15 feet.

Cost of Work: \$ 7,000

Permit Fee: \$ 100

### Approved

Fire: \_\_\_\_\_

Ele.: \_\_\_\_\_

Bldg.: \_\_\_\_\_

### Approved with Conditions

- See attached letter or requirement

Inspector's Signature \_\_\_\_\_

Date Approved \_\_\_\_\_

Signature of Installer [Signature]





# Before Installing Boiler

## Installations must comply with:

- U.S.
  - State and local plumbing, heating and electrical codes.
  - National codes where applicable.
- Canada
  - Canadian Standards Association, CSA B139, Installation Code for Oil-Burning Equipment.
  - CSA C22.1 Canadian Electrical Code Part One.
  - Applicable local or provincial codes.

## Before selecting boiler location:

- Check for nearby connections to:
  - System water piping.
  - Chimney. See pages 12-13. Boiler can be top or back vented.
  - Combustion and ventilation air supply. See page 5.
  - Oil supply. See page 24 for oil line routing.
  - Electrical power.
- Check area around boiler. Remove any combustible materials, gasoline and other flammable liquids.

**WARNING** Failure to keep boiler area clear and free of combustible materials, gasoline and other flammable liquids and vapors can result in severe personal injury, death or substantial property damage.

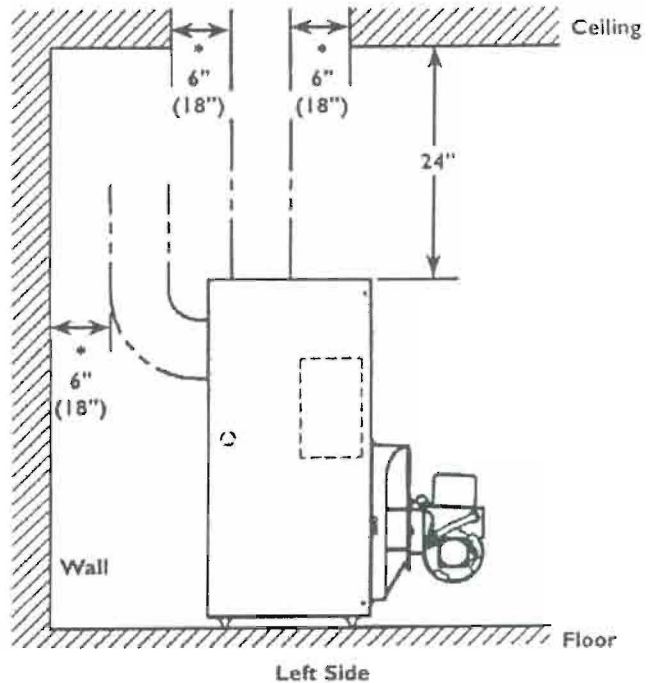
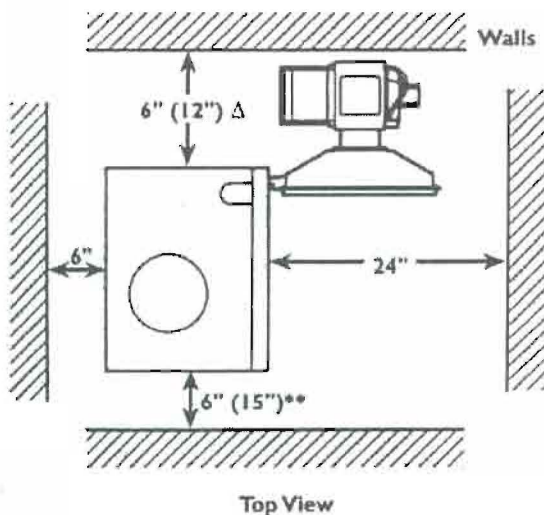
## Provide clearances around boiler (see FIGURE 1):

**NOTICE** Jacket cap must be in place on boiler to avoid requiring an 18" minimum clearance from back or top of boiler to combustible material.

- **Minimum** clearances from vent pipe to combustible material:
  - 6 inches — Type "L" doublewall vent\*
  - 18 inches — Singlewall vent\*

**NOTICE** Flue pipe clearances must take precedence over jacket clearances.

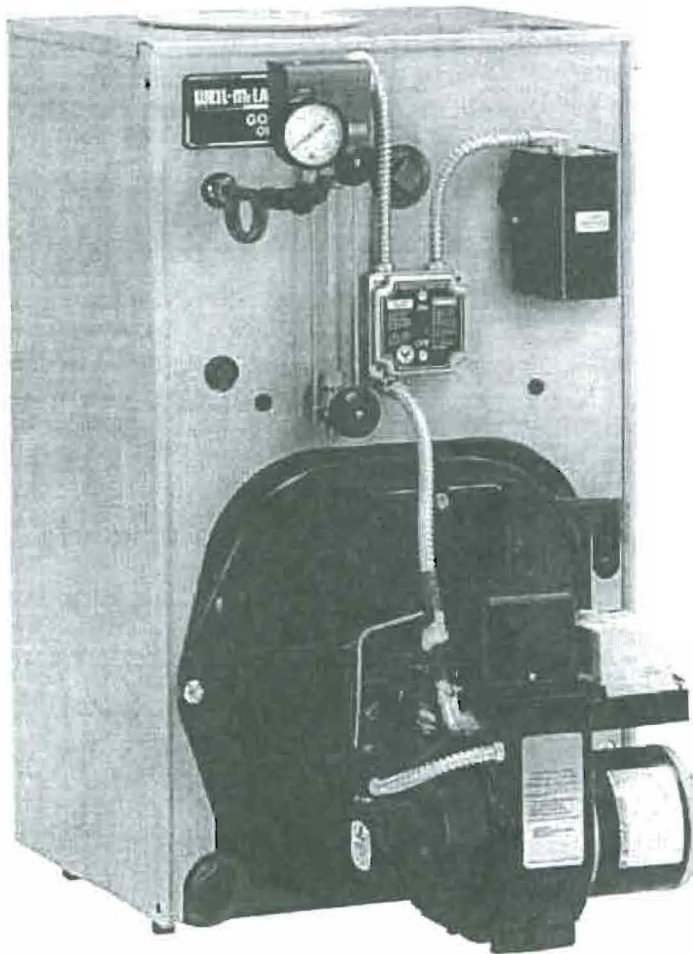
- Recommended **service** clearances:
  - 24 inches — Front and top
  - 6 inches — Left side\*\*, back and right side  $\Delta$
  - 15 inches — Left side with tankless heater\*\*
  - 12 inches — Right side for burner door swing radius  $\Delta$



Recommended Service Clearances  
FIGURE 1

# WEIL-McLAIN

## SGO SERIES 3 OIL-FIRED NATURAL DRAFT STEAM BOILER



This Manual  
Includes:

Installation

Start-Up

Boiler Parts

- Installer:**
- Make sure this is the correct manual for the boiler. Verify boiler model on rating label.
  - Leave all documentation received with boiler and burner with unit for future reference.

**User:** Boiler and burner must be installed and serviced by qualified service technician.





# CITY OF PORTLAND, MAINE

Department of Building Inspections

## Original Receipt

08/05 2011

Received from George Doudley

Location of Work 37 Columbia St

Cost of Construction \$ \_\_\_\_\_ Building Fee: \_\_\_\_\_

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

Certificate of Occupancy Fee: \_\_\_\_\_

Total: \_\_\_\_\_

Building (1L) \_\_\_\_\_ Plumbing (15) \_\_\_\_\_ Electrical (12) \_\_\_\_\_ Site Plan (U2) \_\_\_\_\_

Other HVAC

CBL: \_\_\_\_\_

Check #: 2394 Total Collected \$ 100.00

**No work is to be started until permit issued.  
Please keep original receipt for your records.**

RECEIVED

Taken by: \_\_\_\_\_ AUG - 5 2011

WHITE - Applicant's Copy  
YELLOW - Office Copy  
PINK - Permit Copy

Dept. of Building Inspections  
City of Portland Maine

# Connect Steam Piping

CONTINUED



### Optional reservoir piping:

Modern steam boilers are designed to steam for less time than older, larger boilers. When replacing an older steam boiler, the system condensate return time may be longer than the steaming time. This can cause the following problems:

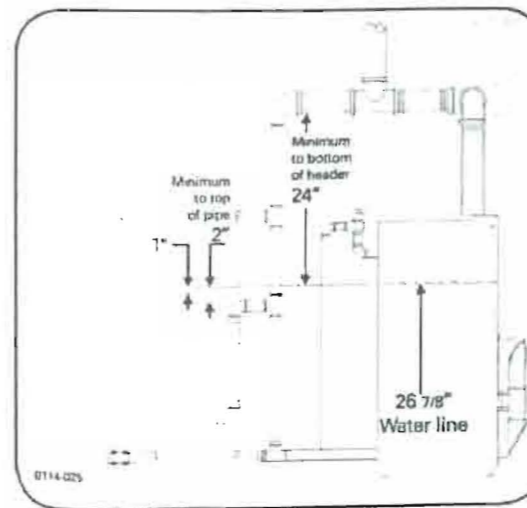
- Boilers fitted with an automatic water feed could overflow.
- Units fitted with only a low water cutoff would shut down and cycle while waiting for condensate to return.

To size and install reservoir piping, see FIGURE 11 and Bulletin AE-8403 (available through your Weil-McLain distributor or sales office):

1. Pipe boiler as shown on pages 14 through 16.
2. Use 8" diameter reservoir pipe.
3. Locate centerline of reservoir pipe 1" below 26 7/8" boiler waterline.

CONDENSATE RECEIVER CAPACITY TABLE							
BOILER MODEL	I=B=R GROSS OUTPUT LBS STEAM PER HOUR	GALLONS CONDENSATE PER HOUR	MINIMUM CONDENSATE RECEIVER CAPACITY - GAL.				RECOMMENDED CONDENSATE FEED PUMPING RATE GPM AT 15 PSI
			15 MIN.* BOILER OPERATION	30 MIN.* BOILER OPERATION	45 MIN.* BOILER OPERATION	60 MIN.* BOILER OPERATION	
SGO-3	114	14	4	8	12	16	0.5
SGO-4	150	18	5	11	16	22	0.6
SGO-5	180	22	6	13	19	26	0.7
SGO-6	216	26	8	16	23	31	0.9
SGO-7	246	30	9	18	27	35	1.0
SGO-8	274	33	10	20	30	39	1.1
SGO-9	303	36	11	22	33	44	1.2

\* Maximum time to when condensate returns to boiler.



Typical Piping (One Riser Shown on Boiler)  
FIGURE 11