

City of Portland, Maine - Building or Use Permit Application

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

| | | |
|-----------------------|-------------|---------------------|
| Permit No: 09-1362 | Issue Date: | CBL: 069 C003001 |
|-----------------------|-------------|---------------------|

| | | | |
|---|-------------------------------------|---|----------------------|
| Location of Construction: 112 VAUGHAN ST | Owner Name: PENNOYER DORIS S | Owner Address: 112 VAUGHAN ST | Phone: |
| Business Name: | Contractor Name: Multi Spec Inc. | Contractor Address: 230 Saco Rd Hollis | Phone: 2077275111 |
| Lessee/Buyer's Name | Phone: | Permit Type: HVAC | Zone: R-4 |

| | | | | | |
|---|--|---|------------------------------|--|-------|
| Past Use: Single Family Home w/ Dr Office | Proposed Use: Single Family Home w/ Dr Office - install a Veil McLain Boiler | Permit Fee: \$350.00 | Cost of Work: \$32,557.00 | CEO District: 2 | 96867 |
| Proposed Project Description: install a Veil McLain Boiler <i>legal use, single family dwelling with a home occupation for Drs offices on the 1st floor</i> | | FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied | | INSPECTION: Use Group: R3 Type: HVAC IRC 2003 ST mē Solid Fuel Bd Signature: <i>DM</i> 12/7/09 | |
| | | 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: 11/30/2009 | Zoning Approval |
|-----------------------------|---------------------------------|------------------------|

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
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..

PERMIT ISSUED

DEC - 7 2009

City of Portland

| | | |
|---|---|---|
| Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input 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"/> <i>ok with conditions</i> Date: <i>12/1/09</i> | Zoning Appeal <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: | Historic Preservation <input 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 <i>Any exterior work requires</i> Date: <i>work requires</i> |
|---|---|---|

*A separate review
And Approval***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

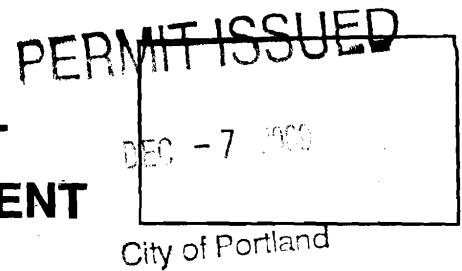
DATE

PHONE



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



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 112 Vaughn St. 69-C-3 Use of Building Single Family w/home ^{or} Date 11/30/09
Name and address of owner of appliance Dr. Doug Pennoyer
112 Vaughn St. Portland
Installer's name and address Aire Serv of Southern Maine
230 Soro Rd, Hollis ME 04042 Telephone 727-5111

Location of appliance:

- ☒ Basement ☐ Floor
☐ Attic ☐ Roof

Type of Fuel:

- ☐ Gas ☒ Oil ☐ Solid

Appliance Name: Weil McGain

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 7208
☐ 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 2 275 gallons
Dept. of Building Inspections
City of Portland Maine

Number of Tanks 2

Distance from Tank to Center of Flame 15 feet.

Cost of Work: \$ 8500 / 32557.5

Permit Fee: \$ _____

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Signature of Installer [Signature]

Approved with Conditions

- ☐ See attached letter or requirement

Inspector's Signature _____

Date Approved _____

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

(COPY)



CITY OF PORTLAND, MAINE
Department of Building Inspection

Certificate of Occupancy

LOCATION 112 Vaughan St.

Issued to **Douglas C Penoyer, Jr**
112 Vaughan St.

Date of Issue **March 4, 1965**

This is to certify that the building, premises, or part thereof, at the above location, built—altered—changed as to use under Building Permit No. **65/96**, has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTRION OF BUILDING OR PREMISES

Two rooms, first floor,

APPROVED OCCUPANCY

**Doctor's Office
(Home Occupation)**

Limiting Conditions:

This certificate supersedes
certificate issued

Approved:

(Date)

Inspector

Nelson F. Cartwright

Albert J. Leans

Inspector of Buildings

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

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| Business Name: | Contractor Name: Multi Spec Inc. | Contractor Address: 230 Saco Rd Hollis | Phone (207) 727-5111 |
| Lessee/Buyer's Name | Phone: | Permit Type: HVAC | |

| | |
|--|--|
| Proposed Use: Single Family Home w/ Dr Office as a Home Occupation- install a Veil McLain Boiler | Proposed Project Description: install a Veil McLain Boiler |
|--|--|

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 12/01/2009
Note: **Ok to Issue:** ☒

- 1) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
- 2) During its existence, all aspects of the Home Occupations criteria, Section 14-410, shall be maintained. The Doctor's office can not be used by someone not living within the dwelling on site.
- 3) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals.
- 4) This property shall remain a single family dwelling with a home occupation for a Doctor's office on the first floor. Any change of use shall require a separate permit application for review and approval.
- 5) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tom Markley **Approval Date:** 12/07/2009
Note: **Ok to Issue:** ☒

- 1) Equipment must be installed in compliance per the manufacturer's specifications
- 2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
- 3) Installation shall comply with 2003 International Mechanical Code and State of Maine Oil and Solid Fuel Board Laws and Rules

80, 88 SERIES 2, and 94
Weil-McLain Commercial

The payback on the Weil-McLain Series 2 with dedicated combustion chamber and heat exchanger is a fast one. And it's a fast one to come.

WEIL-McLAIN

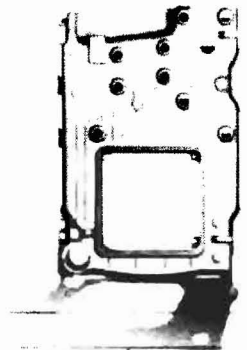
- Weil-McLain patented seal design
- Full light oil, gas and dual fuel combustion
- Packaged, skid mounted Block or Knock-down
- Available for Water and Steam Heating Systems
- Full factory warranty

- Available as Furred or Chimney Draft Venting
- Optional 3-year Parts and Labor Warranty
- Wide selection of burners
- Tankless, Modulating
- ASME listed

• 80 Output 278-1348 MBH (8-40 HP)

- Top or Rear outlet flexibility
- Easy access jacket

| Oil | Gas |
|----------------|-----|
| Combustion 85% | 82% |
| Thermal 83% | 80% |



Ratings

| Boiler Model | I-B-R | | | | I-B-R Net Rating | | | | | | | | |
|--------------|------------------|------------------|----------------------|-------------|------------------|------------------|------------------|--------------------|-------------------------------|----------------------------|-----------------------------------|------------------------------------|----------------------------|
| | Oil Input GPH | Gas Input MBH | Boiler Output MBH | Boiler E.P. | Steam MFR GPM | Steam SQ. FT. | Water MFR GPM | High Output GPM | Net Feedrate VOLUME GPM | Stack Gas VOLUME CFM | Positive Pressure in Pounds | Water Boiler Content Gallons | Operating Weight Pounds |
| 380 | 2.4 | 346 | 278 | 8.3 | 208 | 867 | 242 | 8 | 2.61 | 139 | 0.28 | 37.5 | 1170 |
| 480 | 3.4 | 491 | 396 | 11.8 | 297 | 1238 | 344 | 8 | 3.97 | 198 | 0.28 | 49 | 1411 |
| 580 | 4.45 | 639 | 515 | 15.4 | 386 | 1608 | 448 | 8 | 5.33 | 259 | 0.28 | 60.5 | 1752 |
| 680 | 5.5 | 787 | 634 | 18.9 | 476 | 1983 | 551 | 8 | 6.69 | 320 | 0.27 | 72 | 2093 |
| 780 | 6.5 | 935 | 753 | 22.5 | 565 | 2354 | 655 | 10 | 8.05 | 378 | 0.27 | 83.5 | 2434 |
| 880 | 7.5 | 1082 | 872 | 26 | 654 | 2725 | 758 | 10 | 9.41 | 436 | 0.27 | 95 | 2774 |
| 980 | 8.5 | 1230 | 991 | 29.6 | 743 | 3096 | 862 | 10 | 10.77 | 494 | 0.27 | 106.5 | 3115 |
| 1080 | 9.6 | 1378 | 1110 | 33.2 | 833 | 3471 | 965 | 10 | 12.13 | 558 | 0.26 | 118 | 3456 |
| 1180 | 10.6 | 1526 | 1229 | 36.7 | 922 | 3842 | 1069 | 10 | 13.49 | 616 | 0.26 | 129.5 | 3697 |
| 1280 | 11.6 | 1674 | 1348 | 40.3 | 1018 | 4242 | 1172 | 12 | 14.85 | 675 | 0.26 | 141 | 4038 |

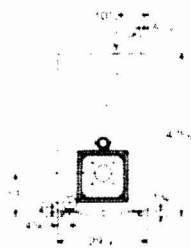
Notes

- Burner input based on maximum of 2,000 feet altitude. For higher altitudes consult local West McClain representative.
- NO 2 fuel of Commercial Standard Spec. CO2/5.56 Heat value of 145,000 Btu/Gal.
- consult West McClain Burner Specifications and Sizing Sheet for gas pressures required. Gross I-B-F ratings have been determined under the I-B-F provision forced draft burner burner units.

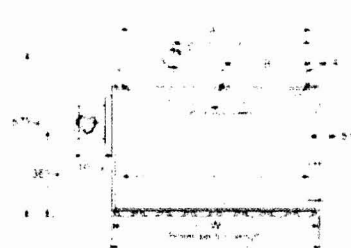
- Net IR Ratings are based on the installed addition of sufficient quantity for the requirements of the building and existing need to be added for piping, piping and peak-up. Water ratings are based on a piping and peak-up allowance of 115. Steam ratings are based on the following allowances: 320 for 1500, 1150 for 1200, 1200 for 1200. An additional allowance should be made for quality hot water systems or for additional piping and peak-up loads. Custom fit in a Wet-Mat can represent a
- Steam pressure and ambient temperature
- Wet-Mat Wet pressure and flow rate

Dimensions

| Boiler Model | Supply Tappings | | Return Tappings | | Dimensions (Inches) - Reference Drawings | | | | | | |
|--------------|-----------------|-------|-----------------|-------|--|---------|----|---------|--------|--------|--------|
| | Water | Steam | Water | Steam | A | B | D | F | H | L | W |
| 380 | 2-4" | 2-4" | 2-3" | 2-3" | 13-1/8 | - | 8 | 12-7/16 | 13-1/2 | 21-5/8 | 20-3/8 |
| 480 | 2-4" | 2-4" | 2-3" | 2-3" | 20-1/8 | - | 8 | 13-5/8 | 20-1/2 | 28-5/8 | 27-3/8 |
| 580 | 2-4" | 2-4" | 2-3" | 2-3" | 27-1/8 | - | 8 | 13-5/8 | 27-1/2 | 35-5/8 | 34-3/8 |
| 680 | 2-4" | 2-4" | 2-3" | 2-3" | 34-1/8 | - | 8 | 13-5/8 | 34-1/2 | 42-5/8 | 41-3/8 |
| 780 | 2-4" | 2-4" | 2-3" | 2-3" | 41-1/8 | - | 10 | 27-5/8 | 41-1/2 | 49-5/8 | 48-3/8 |
| 880 | 2-4" | 2-4" | 2-3" | 2-3" | 48-1/8 | - | 10 | 27-5/8 | 48-1/2 | 56-5/8 | 55-3/8 |
| 980 | 2-4" | 2-4" | 2-3" | 2-3" | 55-1/8 | - | 10 | 41-5/8 | 55-1/2 | 63-5/8 | 62-3/8 |
| 1080 | 2-4" | 3-4" | 2-3" | 2-3" | 62-1/8 | 27-9/16 | 10 | 41-5/8 | 62-1/2 | 70-5/8 | 69-3/8 |
| 1180 | 2-4" | 3-4" | 2-3" | 2-3" | 69-1/8 | 34-9/16 | 10 | 55-5/8 | 69-1/2 | 77-5/8 | 76-3/8 |
| 1280 | 2-4" | 3-4" | 2-3" | 2-3" | 76-1/8 | 34-9/16 | 12 | 55-5/8 | 76-1/2 | 84-5/8 | 83-3/8 |



FRONT



SIDE



INTERMEDIATE



BACK

All Borders

- [illegible]

Water Borders

- $y = \sin x + \frac{1}{2} \cos 2x$ $\Rightarrow y' = \cos x - \sin 2x = \cos x - 2 \sin x \cos x = \cos x(1 - 2 \sin x)$
 $\Rightarrow y' = 0 \Leftrightarrow \cos x = 0$ oder $1 - 2 \sin x = 0 \Leftrightarrow \sin x = \frac{1}{2}$
 $\Rightarrow x = \frac{\pi}{2}$ oder $x = \frac{5\pi}{2}$ oder $x = \frac{\pi}{6}$ oder $x = \frac{5\pi}{6}$
- $y = \sin x + \frac{1}{2} \cos 2x$ $\Rightarrow y'' = -\sin x + 2 \cos 2x = -\sin x + 2(1 - \sin^2 x) = 2 - \sin x - 2 \sin^2 x$
 $\Rightarrow y'' = 0 \Leftrightarrow 2 - \sin x - 2 \sin^2 x = 0 \Leftrightarrow 2 \sin^2 x + \sin x - 2 = 0$
 $\Rightarrow \sin x = \frac{-1 \pm \sqrt{1 + 16}}{4} = \frac{-1 \pm \sqrt{17}}{4}$
- $\sin x = \frac{-1 + \sqrt{17}}{4} \Rightarrow x = \arcsin \left(\frac{-1 + \sqrt{17}}{4} \right)$ oder $x = \pi - \arcsin \left(\frac{-1 + \sqrt{17}}{4} \right)$
- $\sin x = \frac{-1 - \sqrt{17}}{4} \Rightarrow x = \arcsin \left(\frac{-1 - \sqrt{17}}{4} \right)$ oder $x = \pi - \arcsin \left(\frac{-1 - \sqrt{17}}{4} \right)$

Steam Boilers

- $\mathcal{H} = \{h_1, \dots, h_n\}$ is a set of n hypotheses
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Optional Equipment

- [illegible]

07 1 90

DESIGNED BY WEIL-McLAIN
© 1990 WEIL-McLAIN
c 60150

Clad in Cast Iron and Steel

Weil-McLain Commercial cast iron boilers are available as packaged, assembled blocks or as knockdowns with an array of approved burner options:

Beckett

 Gordon-Piatt



 **WEIL-McLAIN**

www.weil-mclain.com