

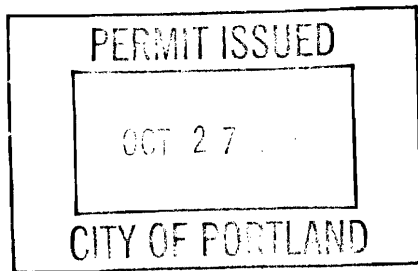
City of Portland, Maine - Building or Use Permit Application

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

Permit No: 08-1363		Issue Date:	CBL: 062 F003001
Location of Construction: 21 THOMAS ST	Owner Name: STEVENS DORIS J	Owner Address: 21 THOMAS ST	Phone:
Business Name:	Contractor Name: Caron & Waltz	Contractor Address: 321 Lincoln Street South Portland	Phone: 2077992228
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R6

Past Use: Single Family Home	Proposed Use: Single Family Home - install a new Burnham Independence IN9	Permit Fee: \$160.00	Cost of Work: \$13,500.00	CEO District: 2
Proposed Project Description: install a new Burnham Independence IN9		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type: SB H/AE JRC 2003 ST ME GAS Regu bldgs Signature: Jm 10/27/08	
		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: 10/27/2008	Zoning Approval		
<ol style="list-style-type: none">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 <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"/> Date: Jm 10/27	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 checked="" type="checkbox"/> Not in District or Landmark <input checked="" 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: Jm 10/27

**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

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Business Name:	Contractor Name: Caron & Waltz	Contractor Address: 321 Lincoln Street South Portland	Phone (207) 799-2228
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home - install a new Burnham Independence IN9	Proposed Project Description: install a new Burnham Independence IN9
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Dept: Zoning **Status:** Approved **Reviewer:** Tom Markley **Approval Date:** 10/27/2008
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:** Tom Markley **Approval Date:** 10/27/2008
Note: **Ok to Issue:** ☒

- 1) The installation must comply with the State of Maine Gas Regulations.
- 2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.



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 21 THOMAS STREET Use of Building _____ Date _____

Name and address of owner of appliance PAUL STEVENS

Installer's name and address CAROL T WALTZ, 321 LINCOLN STREET
SO. PORTLAND, ME 04106 Telephone 799-2228

Location of appliance:

- ☒ Basement ☐ Floor
☐ Attic ☐ Roof

Type of Fuel:

- ☒ Gas ☐ Oil ☐ Solid

Appliance Name: BURNHAM INDEPENDENCE IN9

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 # _____
☒ Gas # PNT 4531
☐ Other _____

Type of Chimney:

- ☒ Masonry Lined
Factory built _____

- ☐ Metal
Factory Built U.L. Listing # _____

- ☐ Direct Vent
Type _____ 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: \$ 13,500

Permit Fee: \$ 160

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

Dimensional Data

Boiler Model	Approx. Shipping Weight Lbs.	Dimensions (in inches)							Recommended Min. Round Chimney Size (Diameter x Height) (1)	Gas Conn. (NPT)	Water Volume (Gal.)		
		'A'	'B'	'C'	'D'	'E'	'F'	'G'			Steam Boiler	Water Boiler	(3)
IN3	350	14-1/2	40	33-3/4	4	40-1/4	4-3/4	7-1/4	4" x 15 ft.	1/2"	5.1	7.8	3.9
IN4	420	17-3/4		34-3/4	5			8-7/8	5" x 15 ft.		6.5	10.0	5.0
IN5	485	21		35-3/4	6		5-1/4	10-1/2	6" x 15 ft.		7.9	12.2	6.1
IN6 USA	555	24-1/4		36-3/4	7		12-1/8	7" x 15 ft.	9.3		14.4	7.2	
IN6 Canada		27-1/2			37-3/4	7-1/2			13-3/4	8" x 15 ft.	10.7	16.6	8.3
IN7	620	30-3/4		15-3/8			3/4"	12.1	18.8		9.4		
IN8 USA	690	34		8		17		8" x 15 ft.	13.5	21.0	10.5		
IN8 Canada						30-3/4	45		45-1/2	18-5/8	3/4" (2)	14.9	23.2
IN9	760	37-1/4	9	20-1/4	9" x 15 ft.	16.3		25.4		12.7			
IN10 USA	815	40-1/2		45-1/2		21-7/8		1" (2)	17.7	27.6	13.8		
IN10 Canada			43-3/4		21-7/8	17.7			27.6	13.8			
IN11	885	40-1/2	45	38-3/4	9	45-1/2	20-1/4	9" x 15 ft.	3/4" (2)	16.3	25.4	12.7	
IN12	955	43-3/4								21-7/8	17.7	27.6	13.8

(1) 15' chimney height is from bottom of Draft Hood opening to top of Chimney.

(2) Gas connection size on IN10-IN11 Continuous Ignition (Standing Pilot) is 1 NPT.

(3) Steam boiler's "steamable water volume": water volume from NWL (normal water level) to low water cutoff level.

Heating Surface: 4.35 sq. ft. per flueway (steam); 5.72 sq. ft. per flueway (water)

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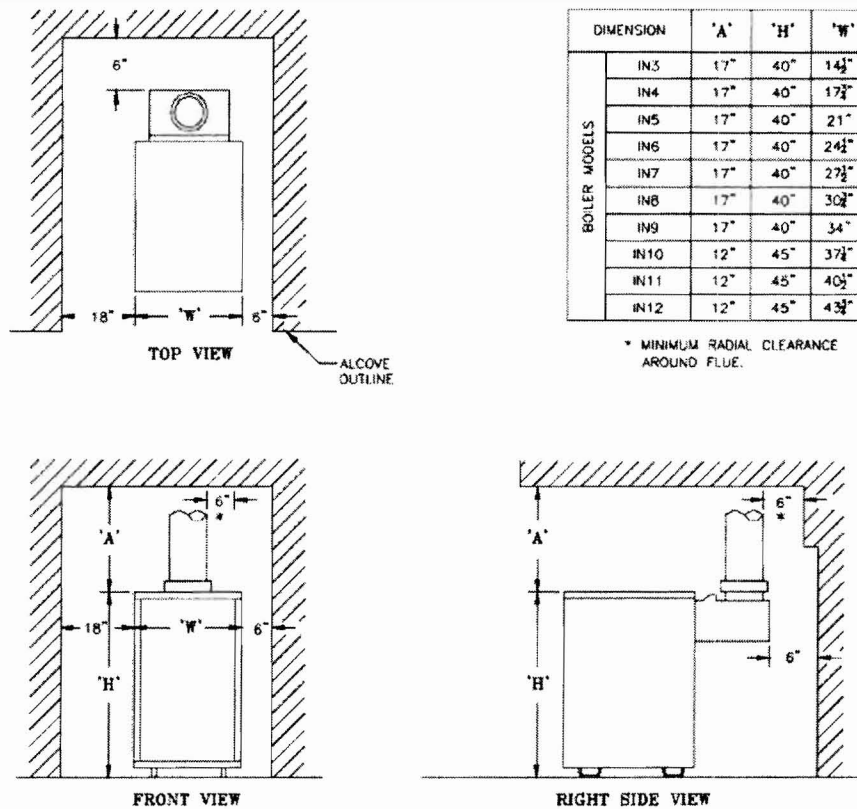


Figure 3: Clearance to Combustible Materials

5. For boiler located in an *unconfined space in a building of other than unusually tight construction*, adequate combustion and ventilation air is normally provided by fresh air infiltration through cracks around windows and doors.
6. For boiler located within *unconfined space in building of unusually tight construction* or within *confined space*, provide outdoor air through two permanent openings which communicate directly or by duct with the outdoors or spaces (crawl or attic) freely communicating with the outdoors. Locate one opening within 12 inches of top of space. Locate remaining opening within 12 inches of bottom of space. Minimum dimension of air opening is 3 inches. Size each opening per following:
 - a. Direct communication with outdoors. Minimum free area of 1 square inch per 4,000 Btu per hour input of all equipment in space.
 - b. Vertical ducts. Minimum free area of 1 square inch per 4,000 Btu per hour input of all equipment in space. Duct cross-sectional area shall be same as opening free area.
 - c. Horizontal ducts. Minimum free area of 1 square inch per 2,000 Btu per hour input of all equipment in space. Duct cross-sectional area shall be same as opening free area.

Alternate method for boiler located within confined space. Use indoor air if two permanent openings communicate directly with additional space(s) of sufficient volume such that combined volume of all spaces meet criteria for unconfined space. Size each opening for minimum free area of 1 square inch per 1,000 Btu per hour input of all equipment in spaces, but not less than 100 square inches.

7. Ventilation Duct Louvers and Grilles. Equip outside openings with louvers to prevent entrance of rain and snow, and screens to prevent entrance of insects and rodents. Louvers and grilles must be fixed in open position or interlocked with equipment to open automatically before burner operation. Screens must not be smaller than ¼ inch mesh.

Consider the blocking effect of louvers, grilles and screens when calculating the opening size to provide the required free area. If free area of louver or grille is not known, assume wood louvers have 20-25 percent free area and metal louvers and grilles have 60-75 percent free area.

- H. Do not install boiler where gasoline or other flammable vapors or liquids, or sources of hydrocarbons (i.e. bleaches, cleaners, chemicals, sprays, paint removers, fabric softeners, etc.) are used or stored.

D. Install Vent Connector from draft hood or vent damper to chimney. See Figure 30.

1. Do not connect into same leg of chimney serving an open fireplace.
2. Vent pipe to chimney must not be smaller than outlet on draft hood or vent damper. Type B is recommended, but single-wall vent pipe may be used. Arrange venting system so boiler is served by vent damper device.
3. Where two or more appliances vent into a common vent, the area of the common vent should be at least equal to the area of the largest vent plus 50% of the area in the additional vent(s). Do not connect the vent of this appliance into any portion of mechanical draft systems operating under positive pressure.
4. Horizontal run should be as short as possible. The maximum length of an uninsulated horizontal run must not exceed 75% of the height of the chimney.
5. Vent pipe should have the greatest possible initial rise above draft hood consistent with headroom available and required clearance from adjacent combustible building structure. Vent pipe should be installed above bottom of chimney to prevent blockage.
6. Vent pipe should slope upward from draft hood to chimney not less than one inch in four feet. No portion of vent pipe should run downward or have dips or sags. Vent pipe must be securely supported.
7. Vent pipe must be inserted into but not beyond inside wall of chimney liner. Seal tight between vent pipe and chimney.

E. If an Existing Boiler is Removed:

When an existing boiler is removed from a common venting system, the common venting system is likely to be too large for proper venting of the appliances remaining connected to it.

At the time of removal of an existing boiler, the following steps shall be followed with each appliance remaining connected to the common venting system placed in operation, while the other appliances remaining connected to the common venting system are not in operation:

1. Seal any unused openings in the common venting system.
2. Visually inspect the venting system for proper size and horizontal pitch and determine there is no blockage or restriction, leakage, corrosion, and other deficiencies which could cause an unsafe condition.

3. Insofar as is practical, close all building doors and windows and all doors between the space in which the appliances remaining connected to the common venting system are located and other spaces of the building. Turn on clothes dryers and any appliance not connected to the common venting system. Turn on any exhaust fans, such as range-hoods and bathroom exhausts, so they will operate at maximum speed. Do not operate a summer exhaust fan. Close fireplace dampers.
4. Place in operation the appliance being inspected. Follow the Lighting (or Operating) Instructions. Adjust thermostat so appliance will operate continuously.
5. Test for spillage at the draft hood relief opening after 5 minutes of main burner operation. Use the flame of a match or candle, or smoke from a cigarette, cigar or pipe.
6. After it has been determined that each appliance remaining connected to the common venting system properly vents when tested as outlined above, return doors, windows, exhaust fans, fireplace dampers and any other gas-burning appliance to their previous condition of use.
7. Any improper operation of the common venting system should be corrected so the installation conforms with the *National Fuel Gas Code*, NFPA 54/ANSI Z223.1. When resizing any portion of the common venting system, the common venting system should be resized to approach the minimum size as determined using the appropriate tables in Part 11 in the *National Fuel Gas Code*, NFPA 54/ANSI Z223.1.

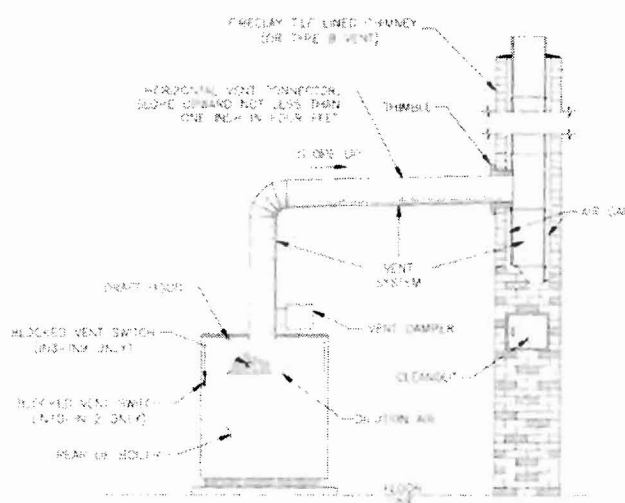


Figure 30: Typical Vent Installation