



CITY OF PORTLAND, MAINE
 Department of Building Inspections

Original Receipt

January 7 2009

Received from Grant Chip

Location of Work 32 Elmwood

Cost of Construction \$ 15,900- Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: _____

Building (IL) _____ Plumbing (IS) _____ Electrical (I2) _____ Site Plan (U2) _____

Other None

CBL: 054-2-005

Check #: 10163 Total Collected \$ 180

No work is to be started until permit issued.

If permit is Withdrawn or Denied, amount of the Refund is based on \$20.00 or 20% of the fee, (whichever is greater)
 In order to receive a refund, you **MUST** present the Original Receipt.

Taken by: [Signature]

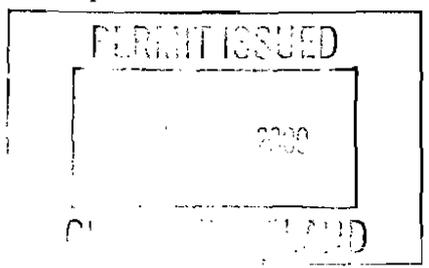
WHITE - Applicant's Copy
 YELLOW - Office Copy
 PINK - Permit Copy

Location of Construction: 32 ELLSWORTH ST	Owner Name: BEH REDEVELOPMENT LLC	Owner Address: 17 CHESTNUT ST	Phone: 207-465-9229
Business Name:	Contractor Name: Granite Corp	Contractor Address: 85 High Street, PO Box 370 Oakland	Phone: 2074659229
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: Residential MultiUnit	Proposed Use: Residential MultiUnit - Install Direct Vent (PVC) Gas Heating Unit - Munch legal use - 3d.v. (permit 08-1432)	Permit Fee: \$180.00	Cost of Work: \$15,900.00	CEO District: 2
Proposed Project Description: Install Direct Vent (PVC) Gas Heating Unit - Munch		FIRE DEPT: TO NFPA 54 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R-2 Type: 5B IMC-2003 IBC-2003 Signature: 1/12/09 cl	
		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: lmd	Date Applied For: 01/08/2009	Zoning Approval		
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<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"/> OK w/condition Date: 1/8/09 AM	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 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: _____
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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
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City of Portland, Maine - Building or Use Permit

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

Permit No: 09-0017	Date Applied For: 01/07/2009	CBL: 054 C005001
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Location of Construction: 32 ELLSWORTH ST	Owner Name: BEH REDEVELOPMENT LLC	Owner Address: 17 CHESTNUT ST	Phone: 207-465-9229
Business Name:	Contractor Name: Granite Corp	Contractor Address: 85 High Street, PO Box 370 Oakland	Phone: (207) 465-9229
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Residential MultiUnit - Install Direct Vent (PVC) Gas Heating Unit - Munch	Proposed Project Description: Install Direct Vent (PVC) Gas Heating Unit - Munch
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Dept: Zoning	Status: Approved with Conditions	Reviewer: Ann Machado	Approval Date: 01/08/2009
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) With the issuance of the certificate of occupancy under permit #08-1432, this property shall remain a three family dwelling. Any change of use shall require a separate permit application for review and approval.			

Dept: Building	Status: Approved with Conditions	Reviewer: Chris Hanson	Approval Date: 01/12/2009
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) Maintain proper setback(s) from property lines/buildings and proper clearances from verticle openings when direct venting.			
2) The appliance shall be installed in accordance with the IMC 2003 and NFPA 211			
3) The installation must comply with the State of Maine Gas Regulations.			
4) Separate permits are required for any electrical, plumbing, HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process.			

Dept: Fire	Status: Approved with Conditions	Reviewer: Capt Greg Cass	Approval Date: 01/09/2009
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) Install shall comply with all manufacture's specifications.			
2) Install shall comply with NFPA 54. A compliance letter is required			

Comments:
1/12/2009-csh: holding for Info on venting and appl ul listing

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

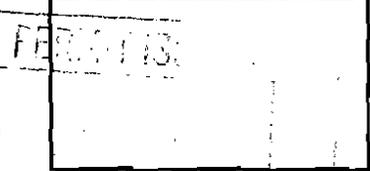
Mailed



FILL IN AND SIGN WITH INK

054-e.005

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 32 ELLWORTH Use of Building Apt Bld Date 1-7-09
 Name and address of owner of appliance GRANITE CORP
85 High Street PO Box 370 OAKLAND Me. 04963
 Installer's name and address GRANITE CORP
 Telephone (207) 465-9229

Location of appliance:
 Basement Floor
 Attic Roof

Type of Fuel:
 Gas Oil Solid
 JAN 7 2009

Appliance Name: MUNH
 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 1343
 Other _____

Type of Chimney:
 Masonry Lined
 Factory built _____
 Metal
 Factory Built U.L. Listing # _____
 Direct Vent
 Type PVC UL# _____

Type of Fuel Tank NAT. Meter
 Oil
 Gas

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 15 900
Permit Fee: \$ 180-

Approved

Approved with Conditions

Fire: _____
 Ele.: _____
 Bldg.: _____

See attached letter or requirement

 Inspector's Signature
1/12/09
 Date Approved

Signature of Installer Robert Ferron

Heat Transfer

Advanced Heating and
Hot Water Systems

120 Braley Road • P.O. Box 429 • East Fræetown MA 02717 • 508 763 8071 • Fax 508 763 3769

Specification for Heat Transfer Products, Inc. Rev 2 Munchkin Residential Boiler

Typical Specification for the Rev 2 Munchkin High Efficiency Boiler

Model Numbers: 80M /140M/ 199M (Modulation Range 27,000 to 199,000)

The Boiler shall be a Munchkin Boiler, manufactured by Heat Transfer Products Inc. Model _____ M. Having a modulation input range of

_____ Btu/Hr, a modulation output range of _____ Btu/Hr and shall be operated on Natural Gas or L.P. Gas

The heat exchanger shall be constructed of 316L stainless steel. The 316L stainless steel combustion chamber shell shall be designed to drain condensation to the back of the heat exchanger section. A thermoplastic condensate hose with built in trap shall allow condensation to drain from the boiler. The heat exchanger tubes shall be rolled and formed in a helical pattern. These tubes shall be secured in a welded module and shall not require any gaskets. The water side and combustion gas side will have baffle plates that will allow the boiler to control the flow of each medium in order to condense the flue gas. The entire Heat Exchanger shall be insulated and secured in a plastic enclosure. All components shall be located in the front of the boiler for easy access for future serviceability. The boiler shall bear the ASME "H" Stamp with a working pressure of 160 PSI and shall be National Board Listed. The complete heat exchanger assembly shall carry a 12 year limited warranty.

The boiler shall be a sealed combustion system, taking only outside air for combustion and exhausting the flue gas with plastic schedule 40 or 80 PVC or CPVC pipe.

CAUTION: Foam Core pipe is not an approved material for either intake/exhaust piping.

The boiler's total combined equivalent venting length, including fitting allowances for both the intake and exhaust venting shall not exceed 85' for 2" and 3" pipe sizes and 125' in 4" pipe size.

The boiler shall have a 3/4 NPT gas connection, and 1-1/4" NPT water connections on the right hand side of the boiler. The venting connection shall be located in the rear of the boiler. The operation of the boiler shall be in a closed loop pressurized system, which must have a properly sized thermal expansion tank and meet local codes. The boiler's construction is in accordance with ANSI Standard for Gas Fired Low-Pressure steam and Hot Water Boilers, ANSI Z21.13b-2002, and Canadian National Standard CGA-4.9a-2002. The boiler shall be UL/ULC (File # MH 27745) listed and exceed the minimum efficiency requirements of Ashrae/103-1993. The boiler shall have an AFUE rating of 95.1%.

The boiler shall have an integrated digital control system utilizing an algorithm to fully adjust the firing rate while maintaining the desired output temperature. Combustion gas and air are premixed prior to introduction to the stainless steel

“inconel” burner using a low voltage gas valve and variable speed fan. The boiler control uses pulse width modulation to send a speed command signal to the fan which varies the volume of combustion air and gas supplied to the burner. The control is connected to a digital display that provides information on the operation of the boiler. The control shall provide means for adjustments of the operating temperature from 50F to 203 F, a differential temperature adjustment 5 to 30 degrees and temperature measurement in Fahrenheit F or Celsius C. The control shall provide a button for a manual ECO reset . In the event of a fault in the boiler, the display will show a fault code to aid in troubleshooting.

The boiler shall be factory assembled and test fired to ensure the correct operating parameters of the boiler. Combustion tests shall also be performed during testing to assure compliance to boiler parameters. Complete operating and installation instructions are to be furnished with every boiler .

Maximum unit dimensions shall be:

80M Maximum unit dimensions shall be : Length 18-1/4”, Width 18-1/4” and Height 25-7/8” Maximum unit Weight approx. 75 pounds

325
BRACKET → **140M** Maximum unit dimensions shall be : Length 24-1/2”, Width 18-1/4” and Height 25-7/8” Maximum unit Weight approx. 101 pounds

32
ELLSWORTH → **199M** Maximum unit dimensions shall be : Length 24-1/2”, Width 18-1/4” and Height 25-7/8” Maximum unit Weight approx. 111 pounds