

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

This is to certify that ROBERT B RAVENELLE

Located At 71 HIGH ST

Job ID: 2012-02-3278-HVAC

CBL: 040- A-001-001

has permission to Burnham Oil Boiler/ Eternal gas water heater
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

BUILDING PERMIT INSPECTION PROCEDURES

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

or email: 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.



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2012-02-3278-HVAC

Located At: 71 HIGH ST

CBL: 040- A-001-001

Conditions of Approval:

Zoning

1. ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
2. This property shall remain as nine residential dwelling units with one unit having four bedrooms. Any change of use shall require a separate permit application for review and approval.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-02-3278-HVAC	Date Applied: 2/14/2012	CBL: 040- A-001-001	
Location of Construction: 71 HIGH ST (79)	Owner Name: THE GOODWILL DEVELOPMENT CORPORATION	Owner Address: 353 CUMBERLAND AVE. PORTLAND, ME 04101	Phone:
Business Name:	Contractor Name: GORDON P ATKINSON	Contractor Address: 149 CLARKS MILL RD HOLLIS CENTER ME 04042	Phone: (207) 807-1429
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC - HVAC	Zone: R-6
Past Use: Nine residential dwelling units one unit with four bedrooms	Proposed Use: Same - Nine residential dwelling units, one unit with four bedrooms – install oil burner & gas water heater in basement	Cost of Work: 12000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: R-2 Type: HVAC
		Signature: <i>Capt. Perrine 2/16/12</i>	Signature: <i>[Signature]</i>
Proposed Project Description: Burnham Oil Boiler/ Eternal gas water heater		Pedestrian Activities District (P.A.D.)	

Permit Taken By: 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 informatin may invalidate a building permit and stop all work.	Zoning Approval		
	Special Zone or Reviews <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 w/ conditions 2/15/12 APN</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 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>Any exterior work requires a separate review approved thru historic preservation</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	PHONE

R-6
historic



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



2012-02-3278

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 79 High St Use of Building Res Date 4/14/12
Name and address of owner of appliance Goodwill / Ingraham

Installer's name and address GACO Inc
149 Clark Mills Rd Hollis Me 04042 Telephone 807 1429

Location of appliance:
 Basement Floor
 Attic Roof

Type of Fuel:
 Gas Oil Solid

Appliance Name: Burnham oil / Eternal Gas
 U.L. Approved Yes No

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

IF NO Explain: _____

Type of Chimney:
 Masonry Lined Burnham
 Factory built 1

Metal
 Factory Built U.L. Listing # _____

Direct Vent
 Type Eternal PRC UL# _____

Type of Fuel Tank
 Oil
 Gas

Size of Tank 2 existing 275 oil



The Type of License of Installer:
 Master Plumber # 8439
 Solid Fuel # _____
 Oil # AP3009794
 Gas # ONT 8575
 Other _____

Number of Tanks _____

Distance from Tank to Center of Flame 20' feet.

Cost of Work: \$ 12,000

Permit Fee: \$ _____

Approved

Fire: _____
Ele.: _____
Bldg.: _____

Approved with Conditions

See attached letter or requirement

Inspector's Signature _____ Date Approved _____

Signature of Installer [Signature]

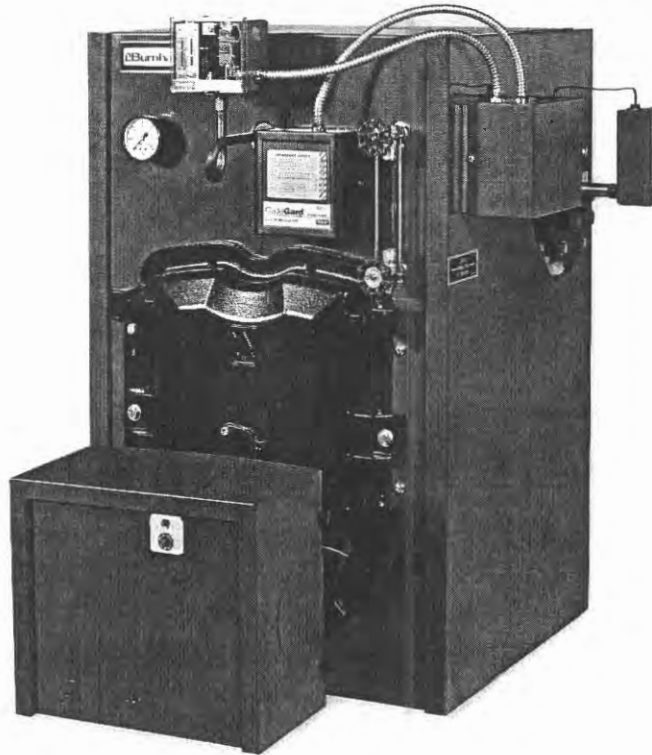
White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

INSTALLATION, OPERATING AND SERVICE INSTRUCTIONS FOR

MegaSteam™ 3-PASS OIL BOILER



As an ENERGY STAR® Partner, Burnham by U.S. Boiler Company has determined that the MST288, MST396, MST513 and MST629 meet the ENERGY STAR® guidelines for Energy efficiency established by the United States Environmental Protection Agency (EPA).



Intertek
9700609



For service or repairs to boiler, call your heating contractor or oil supplier. When seeking information on boiler, provide Boiler Model Number and Serial Number as shown on Rating Label located on top of the boiler.

Boiler Model Number MST	Boiler Serial Number	Installation Date
Heating Contractor		Phone Number
Address		



eternal

ADVANCED HYBRID WATER HEATING

Installation • Operation Manual

Natural Gas (NG) - Factory Default
Liquid Propane Gas (LPG) - Optional Orifice

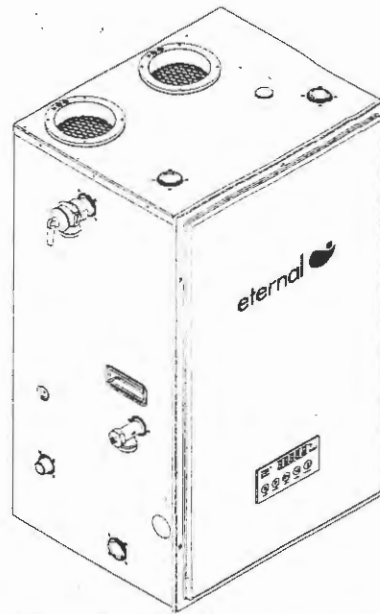
Model GU145 (S) / 508(11,12,21,22)1145 (S)
Model GU195 (S) / 508(11,12,21,22)1195 (S)
Model GU195 (M) / 508(11,12,21,22)1195 (M)



Quality
ISO 9001



SANITATION
NSF/ANSI 5



Service Information Center:

Call us first if you have any questions with this product. We can help you with questions about assembly and Water Heater operation or if there are any damaged or missing parts when you unpack this unit from the shipping box. Please call before returning to the store.

1-866-946-1096

7am-7pm CST, Monday through Friday

IMPORTANT:

- Only specially trained and authorized personnel are permitted to service this water heater.
- **NOTE TO ASSEMBLER / INSTALLER:**
Leave this manual with the consumer.
- **NOTE TO CONSUMER:**
Keep this manual for future reference.
- **RECORD YOUR SERIAL # G1113728**
(see silver CSA label on Gas Water Heater)



WARNING



Read this Operator's Manual carefully and be sure your Water Heater is properly assembled, installed and maintained. Failure to follow these instructions exactly could result in fire, explosion, serious bodily injury and/or property damage.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.



WARNING



California Proposition 65 lists chemical substances known to the state to cause cancer, birth defects, death, serious illness or other reproductive harm. This product may contain such substances, be their origin from fuel combustion (gas, oil) or components of the product itself.



WARNING



Only a licensed professional can install Eternal units for safety and code compliance. Venting and plumbing codes can vary by location. Installation instructions and all applicable codes must be followed or property damage, severe injury, or death may result. Failure to use a licensed plumber or contractor, follow venting, plumbing, and building codes; or follow installation instructions may be unlawful and will void the product warranty. Grand Hall is not responsible for any costs incurred for repairing any problems resulting from failure to follow installation instructions or applicable codes.

FIRECLAY TILE LINED CHIMNEY
MST288-629: NOT LESS THAN 8" X 8" X 15'

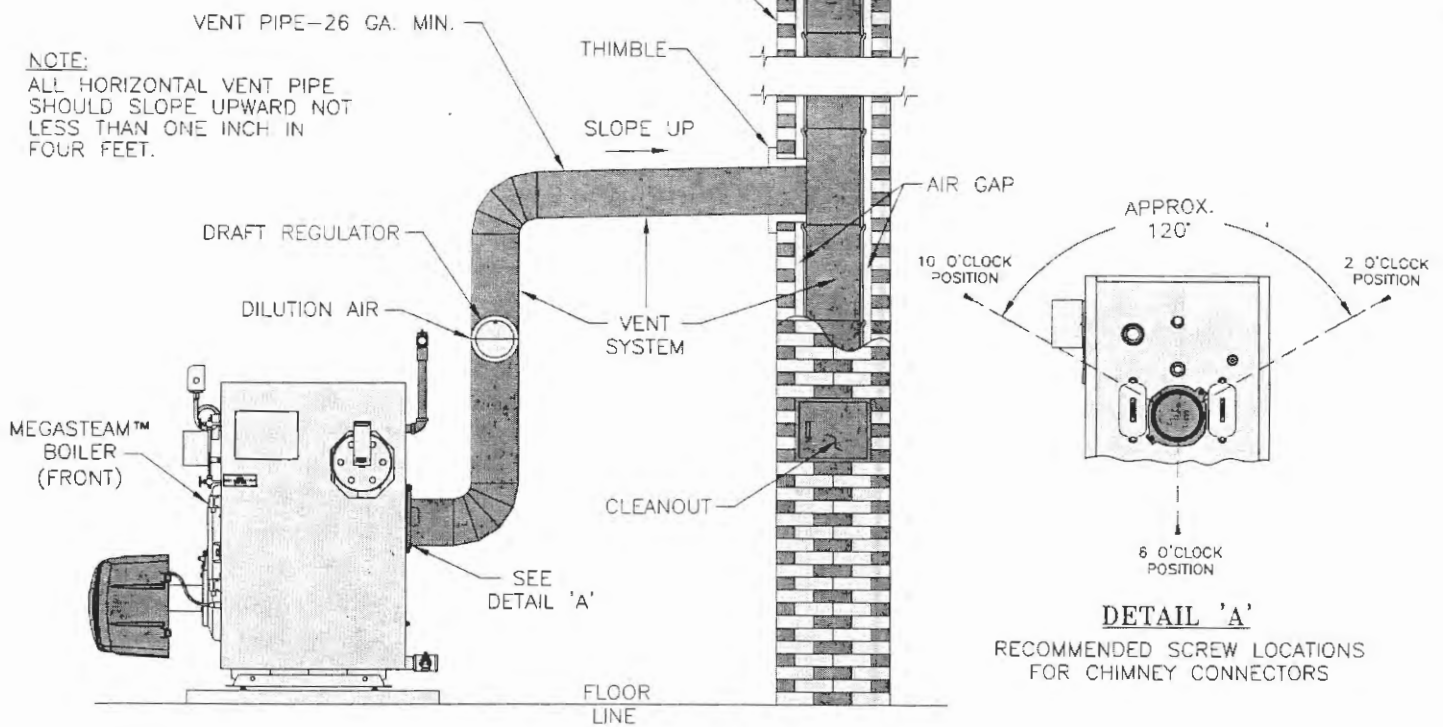


Figure 15: Recommended Vent Pipe Arrangement and Chimney Requirements

Typical clearance

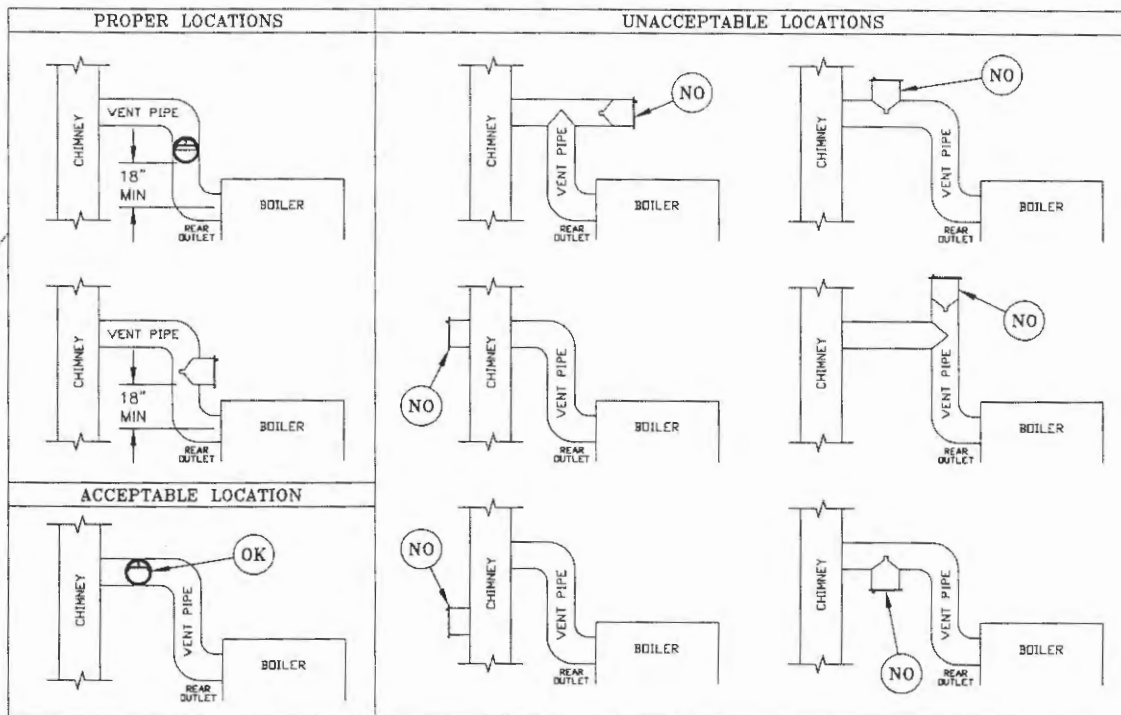


Figure 16: Proper and Improper Locations of Draft Regulator

SECTION I: PRE-INSTALLATION

A. INSPECT SHIPMENT carefully for any signs of damage.

1. All equipment is carefully manufactured, inspected and packed. Our responsibility ceases upon delivery of crated boiler to the carrier in good condition.
2. Any claims for damage or shortage in shipment must be filed immediately against the carrier by the consignee. No claims for variances from, or shortage in orders, will be allowed by the manufacturer unless presented within sixty (60) days after receipt of goods.

B. LOCATE BOILER in front of final position before removing crate. See Figure 1.

1. LOCATE so that vent pipe connection to chimney will be short and direct.
2. BOILER IS SUITABLE FOR INSTALLATION ON COMBUSTIBLE FLOOR. Boiler cannot be installed on carpeting.
3. FOR BASEMENT INSTALLATION, provide a solid elevated base, such as concrete, if floor is not level, or if water may be encountered on floor around boiler.
4. PROVIDE RECOMMENDED SERVICE CLEARANCE, if applicable, as follows:

- a. Clearance from Jacket Front Panel -
 - 24" for servicing burner
 - 24" for flueway cleaning (MST288 & MST396)

- b. Clearance from Jacket Left Side Panel -
 - 30" for flueway cleaning (MST513)
 - 36" for flueway cleaning (MST629)
- b. Clearance from Jacket Left Side Panel -
 - 19" for burner swing door, if opened fully with burner mounted, otherwise 1" with burner removed
 - 12" access clearance to service rear of boiler if right side clearance is less than 12"
 - 1" minimum if right side clearance is 12" or larger to access and service rear of boiler.
- c. Clearance from Jacket Right Side Panel -
 - 6" minimum from external Electrical Enclosure if left side clearance is 12" or larger to access and service rear of the boiler
 - 24" minimum from rear tankless heater (if equipped) for servicing and removal of the heater
- d. Clearance from Jacket Rear Panel -
 - 12" minimum for rear smokebox cleaning (Note: This dimension will also be controlled by horizontal to vertical to horizontal smokepipe arrangement - See Figures 2 and 15.)

5. For minimum clearances to combustibles materials. See Figure 2.

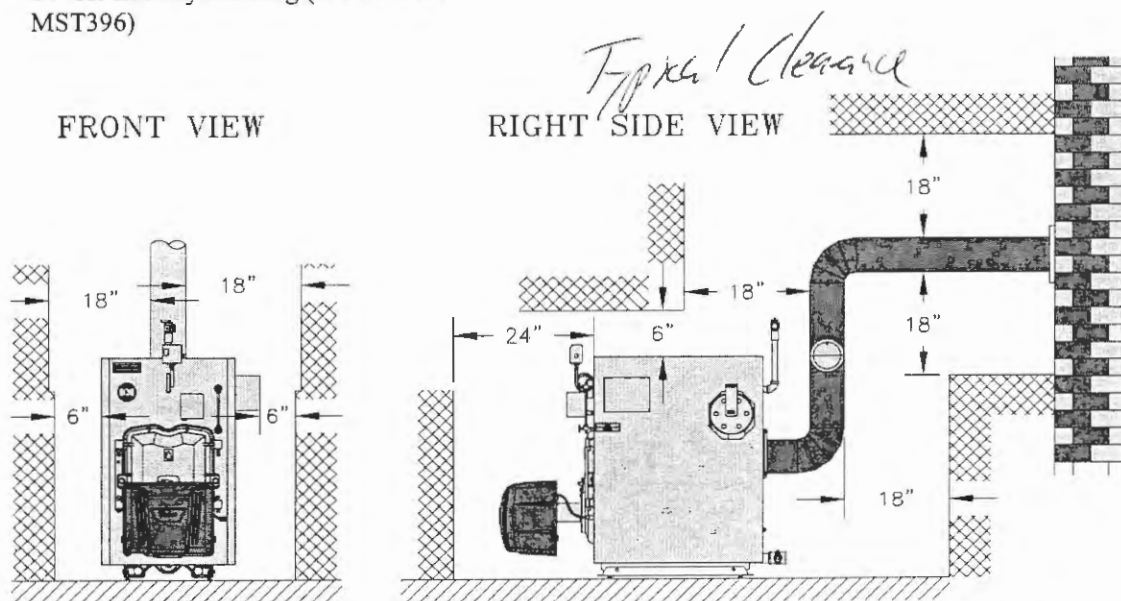


Figure 2: Minimum Installation Clearances To Combustible Materials (Inches)

NOTES:

1. Listed clearances comply with American National Standard ANSI/NFPA 31, Installation of Oil Burning Equipment.
2. MegaSteam™ boilers can be installed in rooms with clearances from combustible material as listed above.

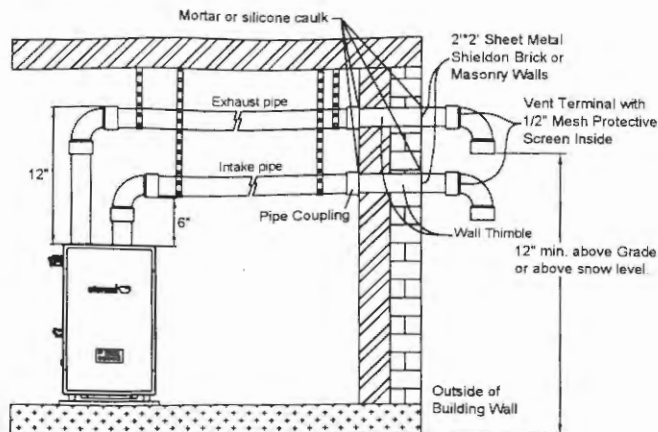
Listed clearances cannot be reduced for alcove or closet installations.

3. For reduced clearances to combustible material, protection must be provided as described in the above ANSI/NFPA 31 standard.

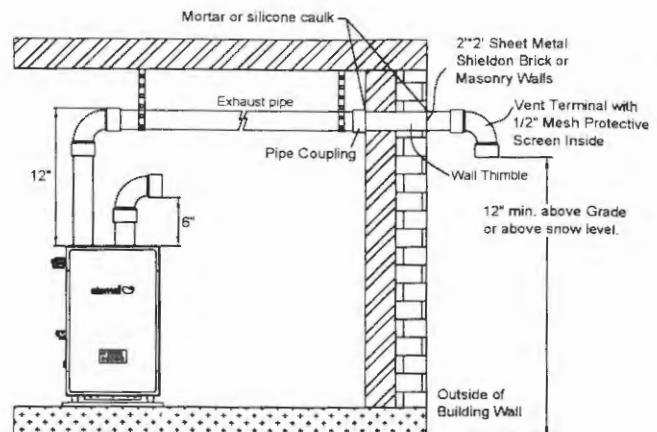
Horizontal Termination

Below diagrams are examples of vertical terminations.

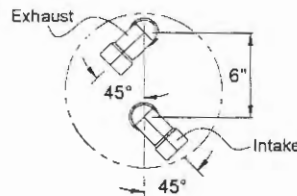
Side Wall (Direct Vent)



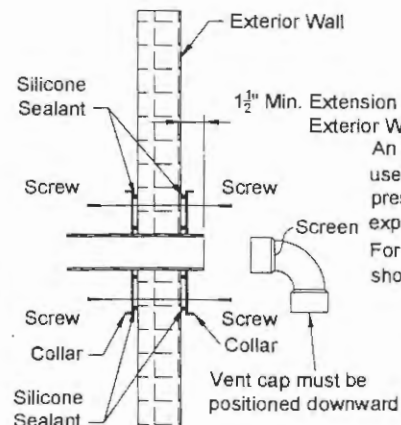
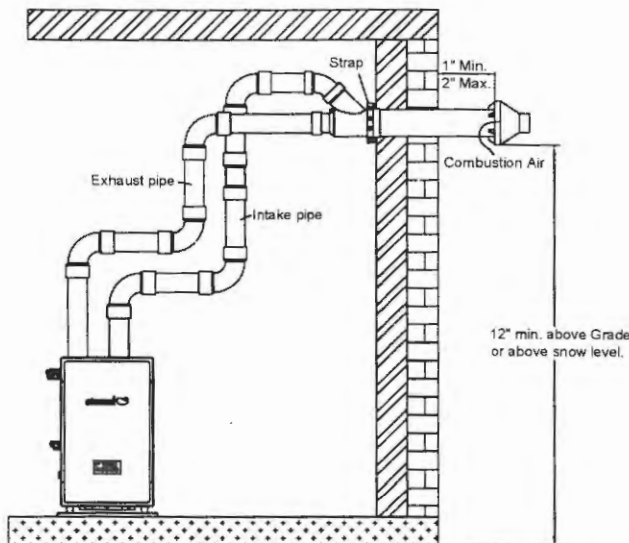
Side Wall (Power Vent)



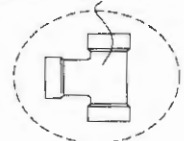
Exterior View



Side Wall (Concentric Vent)



An open tee is optional and can be used as a termination to alleviate back pressure in the venting system in areas experiencing abnormally high winds. For optimal results the open tee should be positioned vertically.



⚠
WARNING
⚠

- Once the vent terminal location has been determined, make a hole through the exterior wall to accommodate the vent pipe. Vent pipe must only exit exterior wall horizontally.
- Place the 1/2" metal mesh screen inside the terminal fitting and connect it as shown to the vent pipe on the exterior of the building.
- Seal any opening around the vent pipe or fittings with mortar or silicone caulk "as shown" above.
- Complete the rest of the vent pipe installation to the water heater's vent connector fitting on the blower outlet. If necessary support horizontal run as previously mentioned.

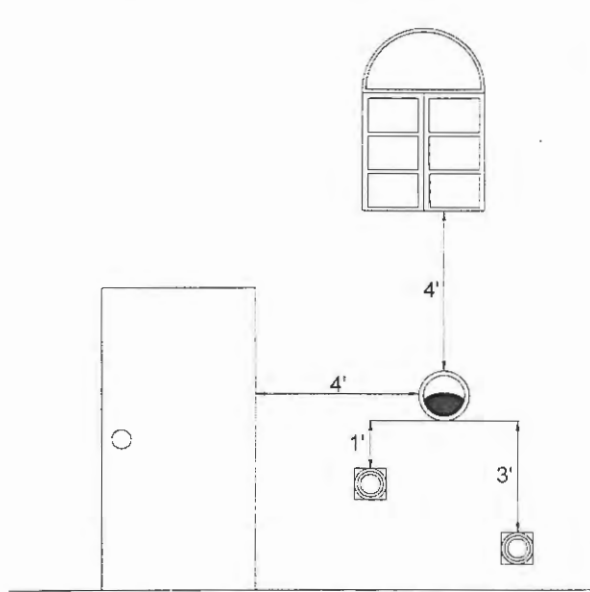
Clearance Requirements from Vent Terminations to Building Openings

All clearance requirements are in accordance with ANSI Z21.10.3 and the National Fuel Gas Code, ANSI Z223.1 and in Canada, in accordance with NSCSGPIIC.

□ Vent Clearances When Heater is Installed Indoors

Maintain the following clearances to any opening in any building:

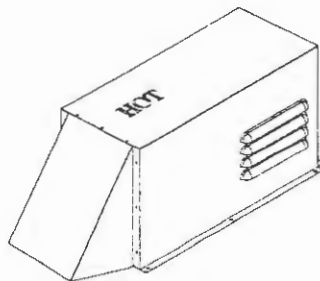
- 4' below, 4' horizontally from, or 1' above any door, operable window, or gravity air inlet into any building.
- 3' above any forced air inlet within 10'.



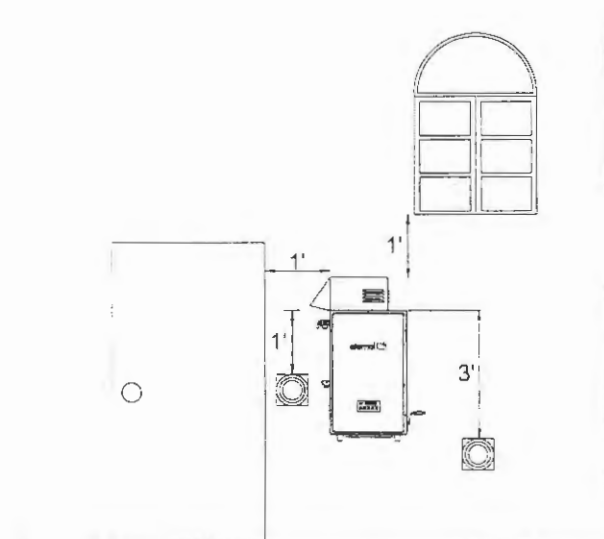
□ Vent Clearances When Heater is Installed Outdoors With a Vent Cap

Maintain the following clearances to any opening in any building:

- From the top of the unit: 1' below, 1' horizontally from, or 1' above any door, operable window, or gravity air inlet into any building.
- 3' above any forced air inlet within 10'.
- For outdoor installation, we recommend using the outdoor venting cap for rain protection.



Outdoor Venting Cap



WARNING



For Installations in Canada, clearances are as follows: To windows, doors, & gravity air inlets: 36". To forced air inlets: 6'. These clearance requirements hold true for all of the above situations: Indoor, Outdoor, vent cap.