

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

BUILDING INSPECTION

PERMIT

Permit Number 156 F006001

PERMIT ISSUED

AUG 12 2005

CITY OF PORTLAND

This is to certify that BACK COVE ESTATES LLC Rudi Th
has permission to install Buderus gas direct vent water in basement of residential condo

AT 610 BAXTER BLVD City of Portland, Oregon 156 F006001

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

Apply to Public Works for street line and **grade** if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is altered or closed-in. **HEAVY NOTICE IS REQUIRED.**

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. _____

Health Dept. _____

Appeal Board _____

Other _____
Department Name

[Signature] 8/12/05

Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 05-1081	Issue Date: 08/09/05	EBL: 156 F006001
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Location of Construction: 610 BAXTER BLVD	Owner Name: BACK COVE ESTATES LLC	Owner Address: 163 MOUNTAIN RD	Phone:
Business Name:	Contractor Name: Rudi The Plumber	Contractor Address: 1231 Forest Ave Portland	Phone: 2077978311
Tenant/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-2

Past Use: residential condo	Proposed Use: residential condo with Buderus Gas direct vent heater in basement	Permit Fee: \$120.00	Cost of Work: \$10,250.00	CEO District: 4
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Proposed Project Description: install Buderus gas direct vent heater in basement of residential condo	FIRE DEPT: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied	INSPECTION: Use Group: R-2 Type: Heating State Gas Regs
	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions	<input checked="" type="checkbox"/> Denied
Signature:	Date:	

Permit Taken By: jharris	Date Applied For: 08/09/2005	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"/> late:	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 late:	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 Date:
	<i>[Large Signature]</i>		

CERTIFICATION

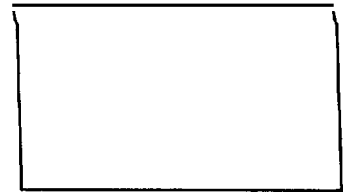
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, 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



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 _____ Use of Building _____ Date _____

Name and address of owner of appliance David Siegfried 441 Park Ave Portland ME

Installer's name and address Rudi He Plumber (Rolf Casparius) 1231 Forest Ave Portland ME 04103 Telephone 795-8311

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Buderus G-124X 11 DV

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 # 06694
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 1311
- Other _____

Type of Chimney:

- Masonry Lined
- Factory built _____

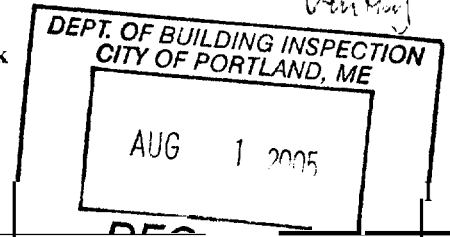
- Metal
- Factory Built U.L. Listing # _____

Direct Vent
Type Integral UL# A29-510

Type of Fuel Tank

- Oil
- Gas

Size of Tank _____



Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 10,250

Permit Fee: \$ 120.00

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Inspector's Signature _____

Date Approved _____

Signature of Installer _____

Assemble the vent termination "T" to the section of pipe that will penetrate the wall. -

Apply high temperature silicone (500°F rated silicone, G.E. 106 or equivalent) approximately one inch from the male end of the connection. Apply an even 1/4" wide bead.

Push the male end into the termination "T". Align the seams; apply another 1/4" bead of silicone around the outside of the connection and smooth out to fill the joint.

Slide a locking clamp over the center of the joint and tighten clamps. Make sure the clamp is centered on the joint.

Install the pipe through the wall, or wall thimble if required, from the outside until the locking clamp is flush with the outside of the wall. The locking clamp should be in such a position that the pipe is secure against the outside wall. The seam in the pipe must be oriented upwards. The "T" termination must be mounted with the openings in the vertical direction, with the termination 6 1/4" from the wall (see fig. 11).

Install a band or gear clamp to the pipe on the inside of the wall to prevent the pipe from sliding towards the outside.

For all other joints including elbows apply high temperature silicone (500 °F rated silicone, G. E.106 or equivalent) approximately one inch from the male end of the connection. Apply an even 1/4" wide bead.

Push male connection into the female end of the mating connection. The seams should be aligned and oriented upwards in all horizontal runs.

Apply another bead of silicone around the outside of the end of the female connection and smooth out to fill the joint.

Slide locking band over the center of the joint and tighten clamps. Make sure clamp is centered on the joint.

For the connection to the inducer apply high temperature silicone (500 °F rated silicone, G.E. 106 or equivalent) on the male end of the vent connection on the inducer housing. Apply an even 1/4" wide bead.

Slide the end of the connecting section of vent pipe over the end of the inducer. The seam must be aligned upward.

Apply a bead of silicone around the outside of the joint and smooth out the silicone to ensure a gas tight seal.

Slide the special ametek clamp over the inducer collar and tighten clamps. Ensure that the clamp is positioned correctly over the tabs on the inducer.

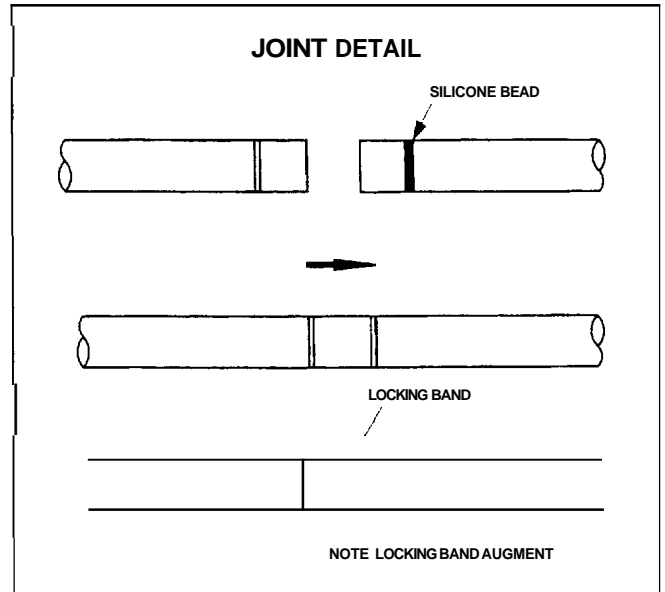
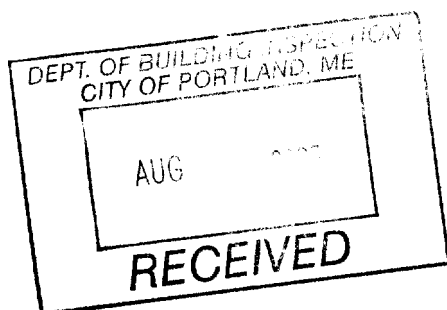


Fig. 10

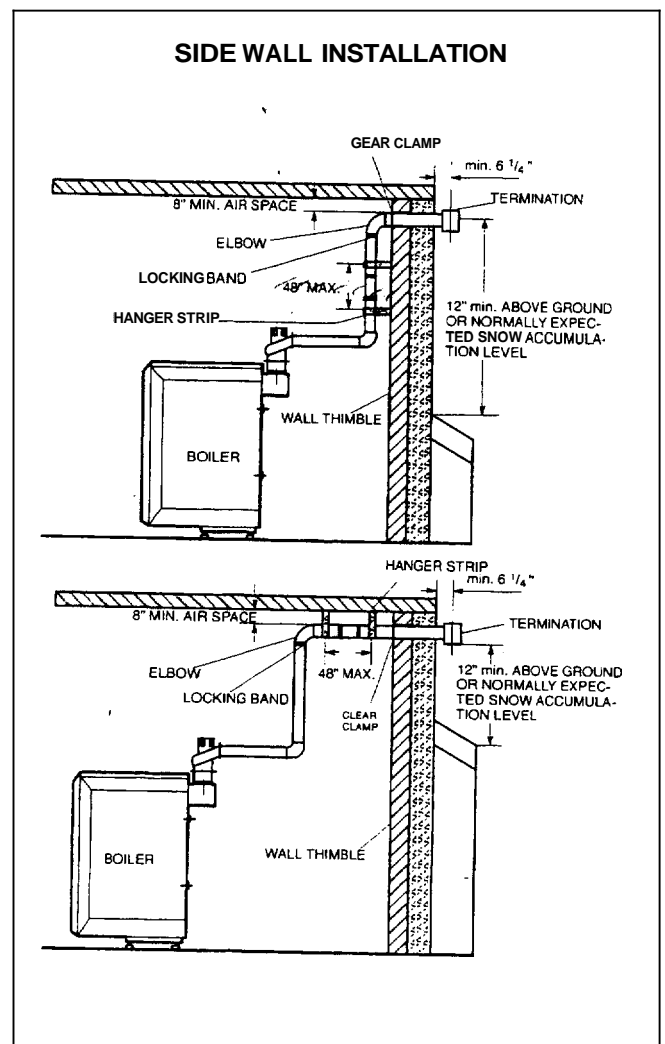


Fig. 11

The vent system will be under positive pressure. Check all seams for gas tightness. Allow **24** hours for the silicone to cure before operating the boiler.

All horizontal runs **must** be sloped at least $\frac{1}{4}$ " per foot. The horizontal run that terminates outside must be sloped downward towards the outside wall. In the case of multiple horizontal runs, slope the other runs downward towards the boiler to prevent any moisture from collecting in the vent system. Maximum total equivalent vent length is 25 feet. Minimum vent length is 1 foot. Each elbow is equivalent to 3 feet.

Installation instructions

Align the inducer **so** that it is flush with the back of the collector hood and centered over the opening in the draft hood.

Using a $\frac{5}{16}$ " bit, drill **4** holes, where the drill spots are marked on the draft hood.

The inducer shall be flush with **the back** of the collector hood.

Install plug provided into hole in adapter.

Mount the inducer and adapter assembly to the hood using the $\frac{1}{4}$ " allen head bolts, flat washer, lock washer and **lock** nuts provided, fig. 9.

All vent pipe shall be 3 inch 2-Flex or *flex-L* international **AL29-4C** stainless steel vent pipe and accessories.

The outside of all male **ends** and inside of female **ends** must be cleaned with any commercially available brake cleaner before applying silicone sealant. Install the venting system **from** the termination and work towards the boiler.

Side wall venting

Install wall thimble into wall, observing the aforementioned rules and/or local building codes. The **wall thimble** can be used for wall thickness of $4\frac{1}{2}$ to $7\frac{1}{2}$ inches. Select the point of wall penetration where the minimum $\frac{1}{4}$ " per foot of slope towards the termination **can** be maintained.

The pipe can be mortared in directly without **using** a wall thimble, **if** the wall is non-combustible. **The** pipe can **be** located between joists spaced **16"** on center. Penetrating a combustible wall requires the use of a wall thimble. A **framed** opening **is** required to insert the thimble halves. The thimble is adjustable for different wall thickness. Caulk around outside edges of plate **as** necessary and fasten to wall using suitable screws or nails.

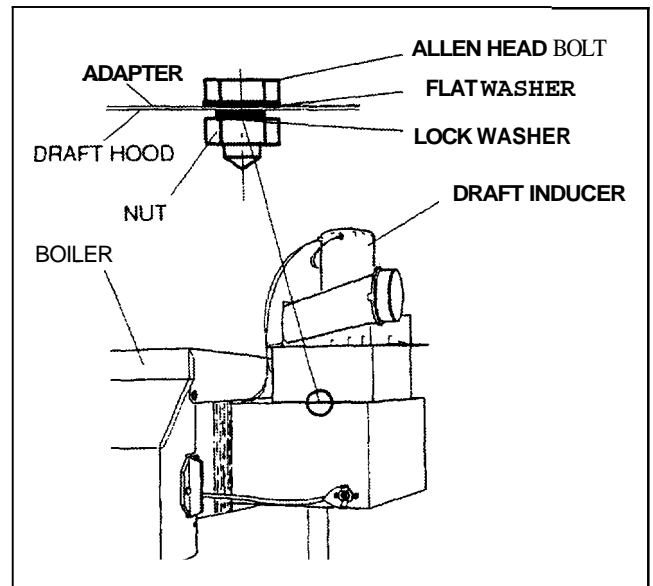
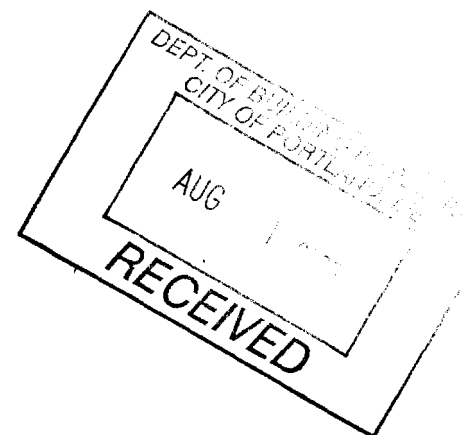


Fig. 9



The system must be supported along its horizontal length at all elbow locations and joints plus every forty-eight inches or less using straps around pipes.

The components of the system **must** not be penetrated by fasteners either when joining pipes and fittings or using support straps. If the lengths of pipe must be cut, the cut end must be filed or sanded smooth before joining. **Do not** cut off female end of pipe.

Important Notice

When any of the previous installation procedures are completed be sure to go over the entire system to make sure all joints are secure and sealed correctly. The seams and joints must be checked for gas tightness. **It is** required to have the entire system checked by a qualified inspector at least once annually following initial installation.

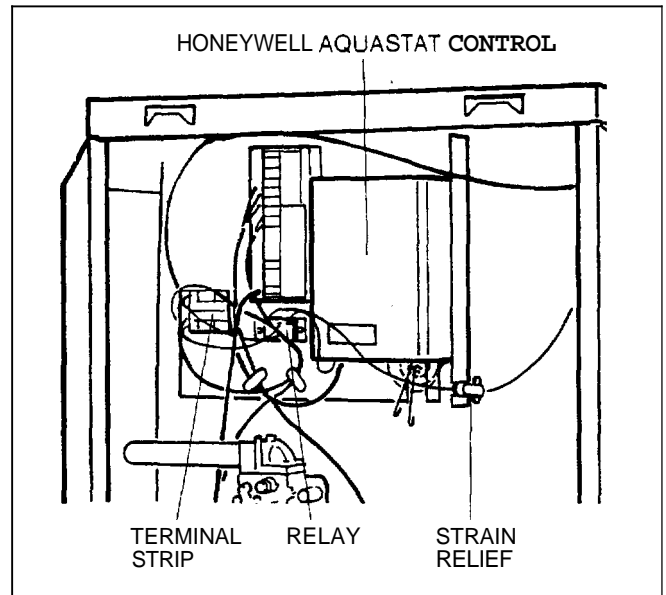


Fig. 11 a

Electrical Connection

Ensure that all electrical power has been disconnected from the boiler.

Mount the relay on the control panel inside the front jacket panel as shown in fig. 11 a.

Run the inducer wiring through the chase, between the insulation and the jacket, to the front of the boiler. Fasten the strain relief to the slot in the control panel, as shown in fig. 11 a.

Wire the boiler as shown in the attached wiring diagram for model DI boilers.

Connect the black inducer wire to the 1/4" tab on the relay. Connect the white inducer wire to L2 on the Honeywell Aquastat. Connect the green inducer wire to ground.

Connect one of the yellow relay wires to terminal 3 on the terminal strip.

Connect the other yellow relay wire to terminal 4 on the terminal strip.

Connect the black relay wire to terminal L 1 on the Aquastat.

