City of Portland, N	Maine - Buil	ding or Use	Permi	t Applicatio	n Permit No	0:	Issue Date	::	CBL:		
389 Congress Street,		_				-0500			372 A	020001	
Location of Construction:		Owner Name:			Owner Addr	ess:			Phone:		
1815 WASHINGTON	AVE	SMITH FARM	M LLC		159 FRON	NT ST					
Business Name:		Contractor Name	Contractor Name:			Address:		-	Phone	•	
		Builders Insul	ation		515 Rivers	side Ind	dustrial Parl	w Portla	ın 2078786	6600	
Lessee/Buyer's Name Phone:					Permit Type	:		_		Zone:	
					HVAC					R-3	
Past Use: Proposed			Use:			Permit Fee: Cost of Work:			CEO District:		
			nstall a	gas fireplace	\$4	\$40.00 \$1,200.		00.00			
		(unit 6)			FIRE DEPT	`: _[Approved	INSPEC	TION:		
							Denied	Use Gro	up: <i>R</i> -3	Type: 56	
									120	2007	
Proposed Project Descripti				-					-11	01 01	
Install a gas fireplace ((unit 6)				Signature: Sig			Signatur	TEC 2003 gnature: 5/7/0) CLN		
					PEDESTRIA	AN ACT	IVITIES DIS	TRICT (P	.A.D() '	·	
					Action:	Appro	ved Ap	proved w/0	Conditions [Denied	
					Signatura				Date:		
D	lp.4. 4	. 1'- 1 17			Signature:				Date		
Permit Taken By: dmartin		oplied For: 7/2007			Zoning Approval						
			Spe	cial Zone or Revi	ews	Zoni	ng Appeal		Historic Pro	eservation	
1. This permit applic Applicant(s) from			; -		Variance				Not in District or Landma		
Federal Rules.	meeting appine	able State and		ioreiand		varianc	æ		Not ill Disu	net of Landina	
2. Building permits of septic or electrical		olumbing,	Wetland			☐ Miscellaneous			Does Not Require Review		
3. Building permits a within six (6) more	are void if work					Conditional Use			Requires Review		
False information permit and stop al		a building	St	bdivision		Interpre	tation	. [Approved		
			☐ Si	te Plan		Approv	ed	[Approved v	v/Conditions	
DI	RMIT ISS	IED	Maj [O.C. Minor MM		Denied			Denied C	_{).} ×	
-		JLD	_	_1 /					-1/	4	
		_	Date: 5	17/01	Date:			Da	te: 5/7/0) a	
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1 1				,							
CIT	Y OF PORT	TAND									
<u> </u>	ו עו ו טוו	LAND									
				EDELEGACI	ON						
I hanahar ang tifu that I an	41 C			ERTIFICATI		1. *					
I hereby certify that I as I have been authorized											
jurisdiction. In addition											
shall have the authority											
such permit.											
SIGNATURE OF APPLICA	.NT			ADDRES	<u> </u>	•	DATE		PH	ONE	
								_			
RESPONSIBLE PERSON I	N CHARGE OF W	ORK, TITLE					DATE	;	PH	ONE	



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

	The unde	ersigned l	hereby ap	plies fo	or a peri	mit to i	nstall t	he following	g heating,	cooking	or power	equipment	in
accord	ance with	the Law.	s of Mair	e, the l	Building	Code o	of the C	City of Portl	and, and	the follow	ving spec	ifications:	

Location / CBL	Use of Building Date $\frac{5/7}{6}$
Name and address of owner of appliance 1815 Washington	Use of Building Date 5/7/07
Installer's name and address Suildros Insulant 5/5 Riverside Ind. Phwy.	tion of Maine
Location of appliance: Basement Roof	Type of Chimney: Masonry Lined Factory built
Type of Fuel: Gas Oil Solid Appliance Name: Fire place U.L. Approved Yes No	Direct Vent Type Hori Fantal UL#
Will appliance be installed in accordance with the manufacture's installation instructions? Yes No IF NO Explain:	Type of Fuel Tank Oil Gas
The Type of License of Installer: Master Plumber # Solid Fuel # Oil # Gas # PNT 3025 Other	Number of Tanks Distance from Tank to Center of Flame feet. Cost of Work: \$ 100 Permit Fee: \$ 400
Approved Fire: Ele.: Bldg.: Signature of Installer Rule Rule	Approved with Conditions See attached letter or requirement Inspector's Signature Date/Approved

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

City of Portland, Maine	- Building	or Use Permit		Permit No:	Date Applied For:	CBL:		
389 Congress Street, 04101	Tel: (207) 8	874-8703, Fax: (207) 874-8716	07-0500	05/07/2007	372	A020001	
Location of Construction:	Owne	r Name:		Owner Address:		Phone:		
1815 WASHINGTON AVE	SMI	TH FARM LLC		159 FRONT ST				
Business Name:	e: Contractor Name:				Contractor Address:			
	Buile	ders Insulation		515 Riverside Indu	strial Parkw Portlan	(207)	878-6600	
Lessee/Buyer's Name	Phone	:		Permit Type:				
			L	HVAC				
Proposed Use:			Propose	d Project Description:				
	_							
Dept: Zoning Sta	tus: Approv	ed with Condition	s Reviewer:	Chris Hanson	Approval Da	ite:	05/07/2007	
Note:						Ok to I	ssue:	
Dept: Building Sta	tus: Approv	ed with Condition	s Reviewer:	Chris Hanson	Approval Da	ite:	05/07/2007	
Note:						Ok to I	ssue:	
1) The installation must comp	oly with the S	tate of Maine Gas	Regulations.					
2) Installation shall comply w	ith 2003 Inter	rnational Mechani	cal Code and Sta	ate of Maine Oil and	d Solid Fuel Board L	aws and	d Rules	

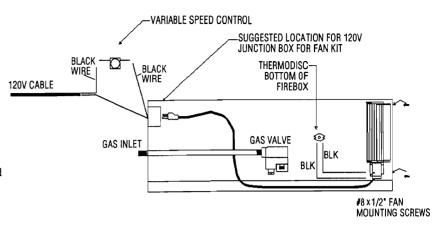
Fan Kit Installation

Automatic On/Off Thermostat Controlled Fan Kit (Part # Z33FK)

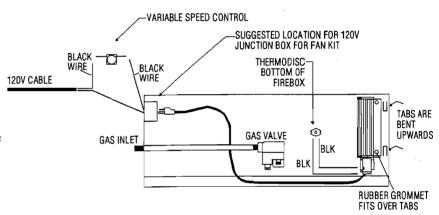
Note: Fan to be located on right hand side of fireplace as per drawing

- 1. Open the lower front access cover.
- The sensor (thermo-disc) needs to be secured under the firebox. Screws are factory installed with washers, make sure washers are used as spacers between bottom of firebox and thermo-disc mount.
- 3. Insert the two (2) #8x1/2 screws provided with the fan into the holes in the side of the fireplace opposite the gas line entry. Mount the fan using the keyhole slots in the fan body.
- 4. Install a junction box (type to except three prong plug) on the inside wall of the access area opposite the fan. Large holes are provided to allow wiring to enter the access area on the left of the unit. Connect the power, sensor and variable speed wall switch as shown in the wiring diagram.
- 5. Close lower access cover.
- 6. Turn the wall switch on (clockwise). Turn the fireplace on. Once the sensor unit reaches operating temperature in approximately 10 to 15 minutes the fan will turn on. The fan can be switched off, if desired, by turning the wall switch fully counter-clockwise.
- 7. To set the minimum fan speed, if desired, remove the variable speed switch from the wall mount. Turn the variable speed wall controller to its minimum setting (fully clockwise). Use the set screw on the side of the variable speed controller to increase or decrease the minimum fan speed. (It may be desirable to lower minimum fan speed to decrease the sound level created by the fan.) Reinstall switch into wall mount and cover with face plate.

OLD STYLE



NEW STYLE



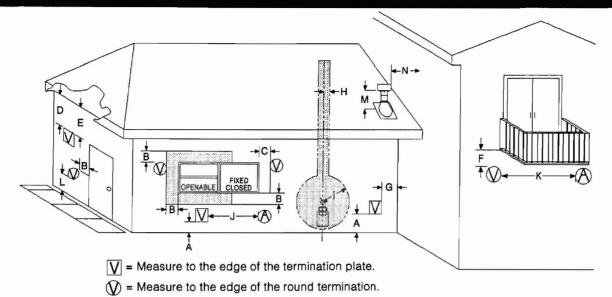
Electrical Services

All optional fan kits are equipped with a 120V, 60Hz blower.

Note: All electric connections are to be made in accordance with CSA Standard C22.1 - Canadian Electrical Code part I or with the National Electrical Code, ANSI/NFPA 70 (latest addition) and/or in accordance with local codes.

Caution: Should this fan require servicing, the power supply must be disconnected.

Vent Termination



- V Vent Terminal
- O Air Supply
- Area Where Terminal Not Permitted.
- A Clearance above grade, veranda, porch, deck, or balcony 12 inches (30cm) minimum._{1,2}
- B Clearance to window or door that may be opened. 12 inches (30cm) minimum for appliances 100 000 Btuh (30 kW) and lower, in Canada. 9 inches₂ (23cm) for appliances 50 000 Btuh and lower, in USA.
- C Clearance to permanently closed window minimum 12 inches (30cm) recommended to prevent condensation on window, in Canada. 9 inches₂ (23cm) for appliances 50 000 Btuh and lower, in USA.
- D Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 feet (60cm) from the center line of the termination. 18 inches (46cm) minimum.
- E Clearance to unventilated soffit 12 inches (30cm) minimum.
- F Clearance under veranda, porch, deck or balcony 12 inches₁ (30cm) minimum.₄ US₅
- G Clearance from a perpendicular inside wall or outer corner to the edge of the vent terminal plate is 3" (minimum).
- H Clearance to each side of center line extended above meter/regulator assembly 3 feet (91cm) within a height 15 feet (4.5m) above the meter/regulator assembly.
- I Clearance to service regulator vent outlet 3 feet (91cm) minimum., US,
- J Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance: In Canada, 6 inches (15cm) for appliances ≤10,000 Btuh (3kW), 12 inches₁ (30cm) minimum for appliances >10,000 Btuh (3kW) and ≤100,000 Btuh (30kW), 36 inches (91cm) for appliances >100,000 Btuh (30kW). In the USA, 6 inches₂ (15cm) for appliances ≤10,000 Btuh (3kW), 9 inches (23cm) for appliances >10,000 Btuh (3kW) and ≤50,000 Btuh (15kW), 12 inches (30cm) for appliances >50,000 Btuh (15kW).
- K Clearance to a mechanical air supply inlet 6 feet (1.8m) minimum., in Canada. In USA, 3 feet (91cm) above if within 10 feet, (3m) horizontally.
- L Clearance above paved sidewalk or a paved driveway located on public property 7 feet (2.1m) minimum.
- M Clearance above highest point of exit on roof 18 inches (45cm).
- N Clearance to perpendicular wall 24 inches (60 cm), (Recommended to prevent re-circulation of exhaust products. For additional requirements check local codes.)

NOTE: Clearances are to the edge of terminal plate, add 6-3/4" to clearances to arrive at center line.

NOTE: Local Codes or Regulations may require different clearances.

Termination

It is imperative that the vent termination be located observing the minimum clearances as shown. There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" from the front of the termination plate.

Do not locate termination where excessive snow or ice build-up may occur. Be sure to check vent termination area after snow falls and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

General Venting Information

The gas fireplace is approved to be vented either through the side wall or vertically through the roof.

This appliance is approved with Kingsman flex vent system and also approved for use with Simpson Duravent Direct Vent System (model DV-GS series), and AmeriVent Direct Vent Pipe System.

Kingsman flex vent system can be used with Simpson Duravent Direct Vent termination's (model DV-GS scries).

When using Simpson Duravent or AmeriVent Direct Vent pipe a Kingsman/Duravent adapter must be used.

ONLY VENTING COMPONENTS SPECIFICALLY APPROVED AND LABELED FOR THIS FIREPLACE MAY BE USED.

Venting terminal shall not be recessed into a wall or siding.

Minimum clearance to combustibles on venting Vertical 1" with Kingsman Vent System

1 1/4" with Simpson Duravent Systems

Top of Horizontal Pipe 1 1/2"

Top of 90 degree bend in Minimum Enclosures of 50 1/2-56 1/2" is 2 1/2" with insulation Sleeve

Top of 90 degree bend in enclosure over 56 1/2" -60" is 4 1/2" without insulation sleeve.

Top of 90 degree bend in enclosures over 60" is 2 1/2" without insulation sleeve.

See page 7 and 8.

- 1 In accordance with the current CSA B149.1, Natural Gas and Propane Code.
- 2 In accordance with the current ANSI Z223. I/NFPA 54, National Fuel Gas Code.
- 3 A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.
- 4 Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.
- 5 Clearance in accordance with local installation codes and the requirements of the gas supplier.

General Vent Installation Information

This gas appliance is approved to be vented either through the side wall or vertically through the roof. Only Kingsman venting kits and components specifically approved and LABELED for this stove may be used. This appliance is also approved for use with Simpson-Duravent Direct Vent system, Model DV-GS Series, and Ameri-Vent Direct Vent Pipe System.

SIMPSON DURAVENT OR AMERIVENT

When using Simpson Duravent or AmeriVent pipe a Duravent adapter must be used (part # ZDVDFA for fireplaces). Follow installation instructions provided by Simpson Duravent for installation of pipe and adhere to the clearance to combustibles provided in this manual. Apply a bead of Mill Pac high temp sealant to all joints of pipes, adapters and termination as recommended.

Flex Pipe Venting

Flex pipe is shipped in unexpanded length. When installing pipe expand the lengths. Pipe can be expanded to twice their lengths e.g. 4ft. to 8ft. Fully expand pipe and cut off excess.

Do not use more than 2 couplers to extend short pipes. Single sections are preferred in an installation attaching at the fireplace and termination.

Place the spring spaces provided approximately every two feet to stabilize 4" flex in the center of 7" flex. When forming bends place spring in bend or before and after. (See Fig. 1).

Horizontal runs require support metal straps every 2 feet. In off set installation support straps should be used to stabilize pipe.

Expand 4" and 7" flex pipe to the point that the 7" protrudes approximately 2 to 3 inches past outer wall and the 4" flex protrudes approximately 2 to 3 inches past the 7" flex. See Fig. 1. Attach the 4" pipe to the termination first and secure with sealant and screws then attach the 7" flex to the termination with caulking and screws. Termination may then be moved back to the outer wall and attached to home screwing into the framing. Silicone around termination to waterproof. If siding shield is going to be used attach this using same attaching hole as the top of termination after termination has been caulked for water proofing.

Use Hi Temp Sealant

Apply a bead of mill pac high temp sealant to all joints and use four screws to secure each pipe at fireplace, termination and any joint if joining any sections of pipe.

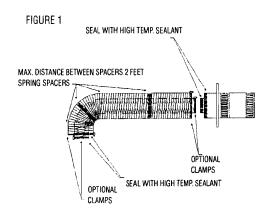
FRAMING DIMENSION

Combustible Wall

Cut a 11" hole through exterior wall and frame as shown below

Non combustible Wall

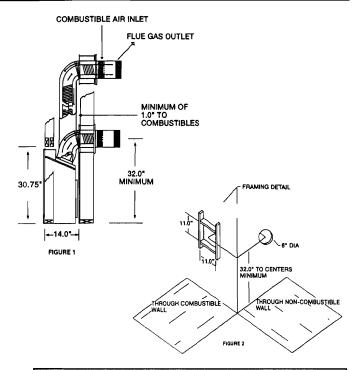
Cut or drill 8" or 204mm diameter hole.



NOTE: It is critical to the proper and safe operation of this fireplace that on all connections the inner liner and the outer casing are both caulked with liberal amounts of sealant. Do not use any kind of tape or silicone other than that recommended in this manual. Mill Pac Sealant

Installation Of Side Wall Venting

- The minimum distance from the bottom of fireplace to centre of vent is 32 inch
 (81 cm) (See Figure 1). Cut a hole through the wall allowing for a 11" x 11"
 (inside diameter) in combustible walls for wall thimble or an 8" diameter hole in a
 non-combustable wall (See Figure 2).
- 2. Note clearance to combustible above 90 degree bend in low profile enclosures 43" (inches) to 60" (inches) is 6" (inches) to the bend, in enclosures 60" (inches) and greater 2 1/2" (inches) to bend
- 3. Select the approximate vent length, precise measurements are not needed as your flex pipe can be expanded to twice its shipped length for ease of installation.
- To install wall thimble centre over 11" x 11" (inch) framing from both sides of wall
 and secure. Route flex vent pipe through wall thimble (See Figure 1).
- 5. Before joining pipes, apply a bead of high temperature sealant (Mill Pac) to end of pipe. First attach the four inch (4") flue pipe to the vent termination with sealant, and secure with 4 screws provided. At this time make sure the spacer springs are attached to the (4") flex pipe as required. Then attach the seven inch (7") pipe by the same method.
- Mount vent termination and seal to wall using caulking around the wall thimble to weather proof. After installing the vent termination, double check to make sure the pipe extends properly through wall thimble and into vent termination.
- 7. Before joining pipes to fireplace flue, apply a bead of high temperature sealant (Mill Pac) to end of pipe. First attach the four inch (4") flue pipe to fireplace with Mill Pac sealant to the flue pipe and secure with 4 screws provided. At this time verify that the spacer springs are attached properly to the (4") flex pipe as required. Then attach the seven inch (7") pipe by the same method.
- Support horizontal pipes every two (2) feet (61 cm) with metal strap bands.
 Re-check fireplace to make sure it is levelled and properly positioned and secured.
- 9. Support vertical pipes to maintain a minimum of 1" or greater clearance to combustibles with metal strapping bands.



Note when using SIMPSON DURAVENT ADAPTER (ZDVDFA) the fireplace clearances from the back standoff is one inch, thus increasing the framing depth to 15".

Venting Routes And Components

Since it is very important that the vent system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The table showing the relationship between vertical and horizontal side wall venting will help to determine the various vent lengths.

The maximum horizontal run with the 90 degree bend at the fireplace flue outlet is 4 ft/122cm (Figure #1). The maximum horizontal run is 20 ft (6.1 m) when the vertical run is 7 ft/2.1m (Figure #2). Note: 1/4" vertical rise is required for every 12" of horizontal run.

The maximum number of 45 degree bends per side wall installation is two (2) in the horizontal run and then you must reduce the length of the horizontal by 18 inches for each 45 degree bend.

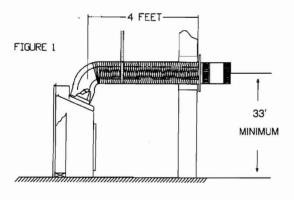
The maximum vertical run is 40 ft/12.2 meters.

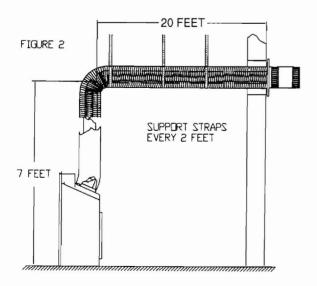
Special Note: For each 45 degree bend installed in the horizontal run, the length of the horizontal run must be reduced by 18" (45cm). This does not apply if the 45 degree bends are installed on the vertical part of the vent system.

Example: If according to the table, the length of the horizontal run is 10 feet, and two 45 degree bends are required, the horizontal run length must be reduced to 7 feet.

2 additional 90° bends or equals are allowed. The horizontal run must be reduced by 36" per each 90° bend, or 18" per each 45° bend.

Important: Always locate the fireplace in such a way that a minimum of offsets and/or horizontal runs are required. 1/4" vertical rise is required for every 12" horizontal run.





How To Use The Vent Table

- Determine the height of the system and the number of bends required.
- Having determined the vertical distance determine the maximum horizontal section allowed.
- 3. Vent table has been established for 90° horizontal/vertical runs. With use of flex pipe distance not having 90° bends will not fall into vent table standards. See Fig. B.

Venting Table From Bottom of Fireplace

for venting to a maximum of 40 ft. (12.2 meters)

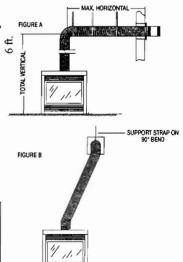
Total	l Vertical	Max Total Horizontal				
Feet	Meters	Feet	Meters			
4	1.2	5	1.5			
5	1.5	8	2.4			
6	1.8	12	3.7			
7	2.1	20	6.1			
8	2.4	20	6.1			
9	2.7	20	6.1			
10	3.0	20	6.1			
11	3.4	20	6.1			
12	3.7	20	6.1			
13	4.0	20	6.1			
14	4.3	20	6.1			
15	4.6	20	6.1			
16	4.9	20	6.1			
17	5.2	20	6.1			
18	5.5	20	6.1			
19	5.8	20	6.1			
20	6.1	20	6.1			
25	7.5	15	4.6			
30	9	10	3.0			
40	12.2	0	0			
	Feet 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25 30	4 1.2 5 1.5 6 1.8 7 2.1 8 2.4 9 2.7 10 3.0 11 3.4 12 3.7 13 4.0 14 4.3 15 4.6 16 4.9 17 5.2 18 5.5 19 5.8 20 6.1 25 7.5 30 9	Feet Meters Feet 4 1.2 5 5 1.5 8 6 1.8 12 7 2.1 20 8 2.4 20 9 2.7 20 10 3.0 20 11 3.4 20 12 3.7 20 13 4.0 20 14 4.3 20 15 4.6 20 16 4.9 20 17 5.2 20 18 5.5 20 19 5.8 20 20 6.1 20 25 7.5 15 30 9 10			

Example A:

If the vertical dimension from the floor of the fireplace is 6ft, the horizontal run to the wall flange of the vent termination must not exceed 12ft.

NOTE: The final location of the fireplace must be such that the horizontal vent dimensions fall within those stated on the graph. The Maximum Vertical vent run is 40ft. (12.2 meters).

Important: Minimum clearance between vent pipes and combustible materials is 1 inch (25mm).



12 ft.

It is recommended for **Propane Horizontal Installations** that the venting should be a minimum of one foot vertical off the flue before the elbow on any horizontal runs of one foot or greater. This allows for cleaner combustion and greatly reduces carboning and cleaning of glass. (Does not apply to Back Flue Models).

Sliding door sixed freel Unit #4 006 Kitchen

16?