

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that RUTHK HEIRS JURGELEVICH

Located At 80 WOODFORD ST

Job ID: 2011-10-2381-HVAC

CBL: 126- J-001-001

has permission to Install a Burning ING and Rinnai in Basement
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.

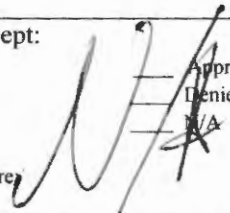
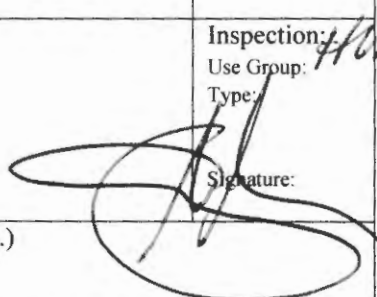
- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may 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.

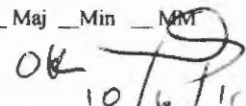

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-10-2381-HVAC	Date Applied: 10/4/2011	CBL: 126- J-001-001	
Location of Construction: 80 WOODFORD ST	Owner Name: DAVID & LINDA MILLER	Owner Address: 80 WOODFORDS ST PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: Caron & Waltz	Contractor Address: 321 Lincoln ST SOUTH PORTLAND MAINE 04106	Phone: () - 799-2228
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-3
Past Use: Single Family dwelling	Proposed Use: Same Single Family dwelling - to install Burnham IN6 and Rinnai R94LSi heating systems	Cost of Work: \$14,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: 	Signature: 
Proposed Project Description: Install a Burning ING and Rinnai in Basement		Pedestrian Activities District (P.A.D.)	

Permit Taken By: planning

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not in Dist or Landmark
<input type="checkbox"/> Wetlands	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does not Require Review
<input type="checkbox"/> Flood Zone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved
<input type="checkbox"/> Site Plan	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
<input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied
Date:  10/6/11	Date:	Date: 

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.

126-J-1

R-3

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. 80 WOODFORDS STREET Use of Building RESIDENTIAL Date 10/3/11

Name and address of owner of appliance DAVID + LINDA MILLER
SAME

Installer's name and address CARON + WALTZ, 321 LINCOLN ST, SOUTH PORTLAND, ME 04106
Telephone 799-2228

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: BURNHAM 116 and RINNAI A94LSI

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 4280
- Other _____

Type of Chimney:

- Masonry Lined BURNHAM BOILER
- Factory built _____

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

- Direct Vent RINNAI TANKLESS WATER HEATER
- 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: \$ 13,235.00

Permit Fee: \$ 160

10-5-11

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

RECEIVED
4
City of Building Inspections
City of Portland, Maine

JOB # 92268

Independence Ratings & Specifications*



Boiler Number	Input MBH (1)	DOE Heating Capacity	I=B=R Rating (2)			AFUE				Approx Shipping Weight (Lbs.)	Minimum Chimney Requirements (Round) Dia. (In.) x Ht. (Ft.) (4) (5)
			Water MBH	Steam MBH	Steam Sq. Ft.	24V		EI			
						Water	Steam	Water	Steam		
IN3	62	51	44	38	158	81.0	80.0	83.1	81.9	350	4x15
IN4	105	87	76	65	271	81.3	80.0	83.1	82.0	420	5x15
IN5	140	115	100	86	358	81.6	80.3	83.1	82.0	485	6x15
IN6	175	144	125	108	450	81.8	80.6	83.2	82.1	555	6x15(5)
IN7	210	173	150	130	542	82.1	80.9	83.2	82.1	620	7x15
IN8	245	202	176	152	633	81.1	80.0	83.2	82.2	690	7x15(5)
IN9	280	231	201	174	725	81.4	80.3	83.2	82.2	760	8x15
		Gross Output MBH				Combustion Efficiency (%)					
							Water		Steam		
IN10(3)	315	260	226	195	812	83.5		82.5		815	8 x15(5)
IN11(3)	349	288	250	216	900	83.5		82.5		885	9x15
IN12	385	318	276	239	996	83.5		82.5		815	9x15

*LP available on IN3-IN9

1. Ratings shown are for installations at sea level and elevations up to 2,000 ft. For higher elevations, reduce ratings 4% for each 1,000 ft. above sea level
 2. Capacities, outputs, and ratings are based on steam combustion efficiency of 82.5%. Water combustion efficiency is 83.5%.
 3. For Canadian builds only: reduce input and output by 3%
 4. 15 ft. height is measured from top of drafthood to top of chimney.
 5. IN6, IN8, & IN10 - Canada only: Increase chimney diameter by 1"
- Working Pressure: 15 PSI Steam; 30 PSI water

Dimensions

Boiler Model	A	B	C	D	E	F	G
IN3	14-1/2	40	33-3/4	4	40-1/4	4-3/4	7-1/4
IN4	17-3/4	40	34-3/4	5	40-1/4	4-3/4	8-7/8
IN5	21	40	35-3/4	6	40-1/4	5-1/4	10-1/2
IN6	24-1/4	40	35-3/4	6*	40-1/4	5-1/4*	12-1/8*
IN7	27-1/2	40	36-3/4	7	40-1/4	7-1/2	13-3/4
IN8	30-3/4	40	36-3/4	7*	40-1/4	7-1/2*	15-3/8*
IN9	34	40	37-3/4	8	40-1/4	7-1/2	17
IN10	37-1/4	45	38-3/4	8*	45-1/2	7-1/2	18-5/8
IN11	40-1/2	45	38-3/4	9	45-1/2	7-1/2	20-1/4
IN12	43-3/4	45	38-3/4	9	45-1/2	7-1/2	21-7/8
PIN3PV	14-1/2	45	N/A	3	N/A	N/A	4
PIN4PV	17-3/4	45	N/A	3	N/A	N/A	8-1/4
PIN5PV	21	45	N/A	3	N/A	N/A	9-1/4
PIN6PV	24-1/4	45	N/A	3	N/A	N/A	9-1/4

*Dimensions indicated are for USA only - For Canada, use dimension on next larger model.

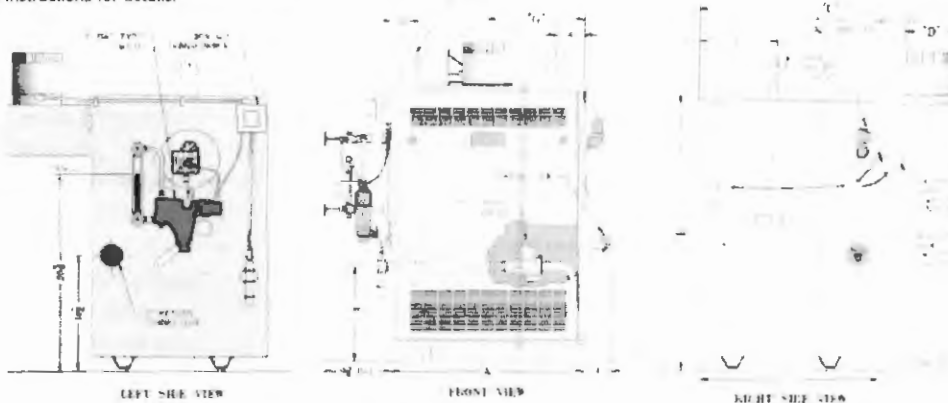
Independence PV Ratings & Specifications

Natural Gas, Packaged, Steam Only

Boiler Number	Input MBH	DOE Heating Capacity MBH (1)	I=B=R Net Ratings		Maximum Vent Length Equivalent Ft. (2) (3)	AFUE%	Approx Shipping Weight (LBS.)
			Steam MBH	Steam Sq. Ft.			
PIN3PV	62	52	39	163	45	83.2	355
PIN4PV	105	87	65	271	35	82.2	425
PIN5PV	140	116	87	363	35	82.2	490
PIN6PV	175	145	109	454	35	82.2	560

1. Capacities and ratings are based on steam combustion efficiency of 83.0%. (84.1% for PIN3PV)
2. The approved venting system for the Independence PV is 3" AL29-4C® stainless steel. Do not substitute other materials.
3. Vent pipe length is listed in equivalent feet. Any elbows or tees used can have specific values which must be subtracted from the total length to determine maximum length of straight pipe. Consult Installation, Operating, and Service Instructions for details.

Steam only - 15 PSI working pressure



www.burnham.com

Specifications

Model	R50LSi	R75LSi	R94LSi	R98LSi	R98LSi-ASME
Minimum Gas Consumption Btu/h	15,000			19,000	
Maximum Gas Consumption Btu/h	150,000	180,000	199,000 Natural Gas 190,000 Propane Gas	237,000	
Hot water capacity (Min - Max) *	0.6 - 5.0 GPM (2.3 - 18.9 L/min)	0.6 - 7.5 GPM (2.3 - 28.4 L/min)	0.6 - 9.4 GPM (2.3 - 35.5 L/min)	0.6 - 9.8 GPM (2.3 - 37 L/min)	
Hot water capacity (45°F rise)	5.0 GPM (18.9 L/min)	6.6 GPM (25.0 L/min)	7.4 GPM(28 L/min) Natural Gas 7.1 GPM(27 L/min) Propane Gas	8.8 GPM (33 L/min)	
Default Temperature Setting (no controller)	120° F (49° C)				
Temperature Controller Default Temperature Setting	104° F (40° C)				
Maximum Temp Setting (Commercial **)	160° F (71° C)		185° F (85° C)		
Maximum Temp Setting (Residential)	Selectable at 120° F (49° C) or at 140° F (60° C)				
Minimum Temperature Setting	98° F (37° C)				
Weight	50 lb (23 kg)			55 lb (25 kg)	
Efficiency Rating	84.0%				
Noise level	49 dB				
Electrical Consumption	Normal	53 W	65 W	79 W	99 W
	Standby	2 W			
	Anti-frost Protection	100 W			116 W
By-Pass Control	Fixed		Electronic		
Minimum Gas Supply Pressure	Natural Gas	5.0 inch W.C.			
	Propane	8.0 inch W.C.			
Maximum Gas Supply Pressure	Natural Gas	10.5 inch W.C.			
	Propane	13.5 inch W.C.			
Type of Appliance	Direct Vent, Temperature controlled continuous flow gas hot water system.				
Operation	With or without remote controls, mounted in kitchen, bathroom, etc.				
Approved Gas Type	Natural Gas or Propane - Ensure unit matches gas type it's being installed on.				
Connections	Gas Supply: 3/4" MNPT, Cold Water Inlet: 3/4" MNPT, Hot Water Outlet: 3/4" MNPT				
Ignition System	Direct Electronic Ignition				
Electric Connections	Appliance: AC 120 Volts, 60Hz. Remote Control: DC 12 Volts (Digital)				
Water Temperature Control	Simulation Feedforward and Feedback.				
Water Supply Pressure	Minimum Water Pressure: 20 PSI (Recommended 30-80 PSI for maximum performance)				
Maximum Water Supply Pressure	150 PSI				
Remote Control Cable	Non-Polarized Two Core Cable (Minimum 22 AWG)				
Energy Star Qualified	Yes	Yes	Yes	No	No

* Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature.

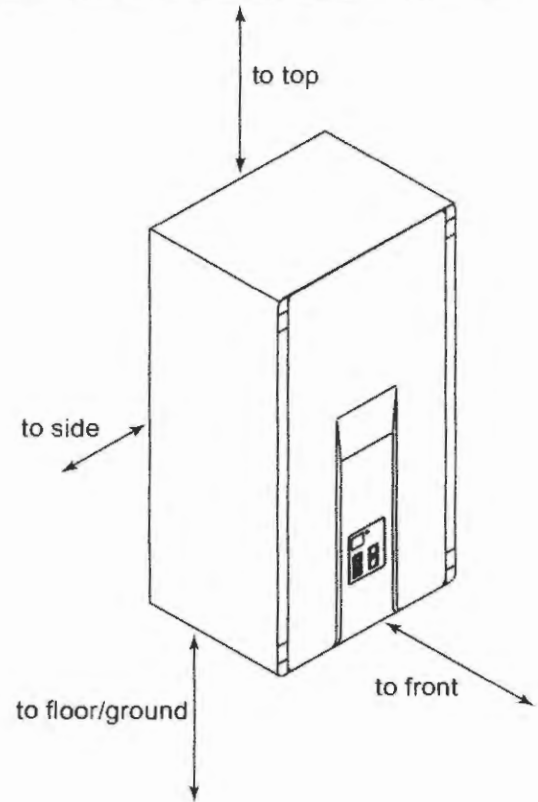
** for commercial and hydronic applications requiring higher temperatures.

Rinnai is continually updating and improving products. Therefore, specifications are subject to change without prior notice.

The maximum inlet gas pressure must not exceed the value specified by the manufacturer. The minimum value listed is for the purpose of input adjustment.

Clearances from Appliance

	to Combustibles		to Non-Combustibles	
	R50LSi R75LSi R94LSi	R98LSi	R50LSi R75LSi R94LSi	R98LSi
Top of Heater	6 inches (152 mm)	12 inches (305 mm)	2 inches (51 mm)	2 inches (51 mm)
Back of Heater	0 (zero)	0 (zero)	0 (zero)	0 (zero)
Front of Heater	6 inches (152 mm)	24 inches (610 mm)	6 inches (152 mm)	24 inches (610 mm)
Sides of Heater	2 inches (51 mm)	2 inches (51 mm)	1/2 inches (13 mm)	1/2 inches (13 mm)
Floor/ Ground	12 inches (305 mm)	12 inches (305 mm)	12 inches (305 mm)	2 inches (51 mm)
Vent	0 (zero)	4 inches *	0 (zero)	0 (zero)



* 4 inches (102 mm) for enclosed area; 1 inch (26 mm) for unenclosed area.

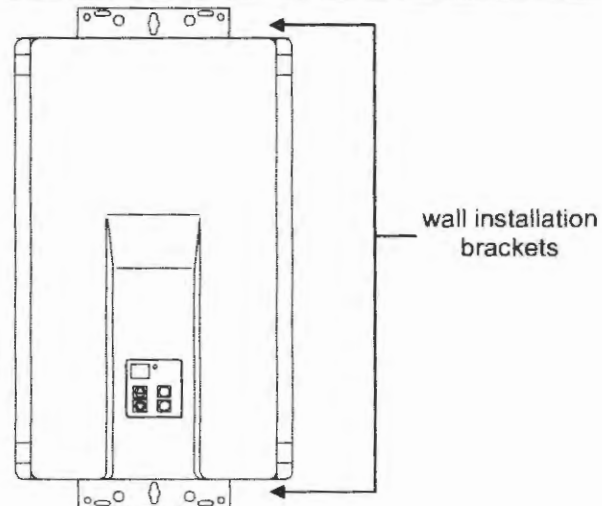
Every vent connection must be accessible for inspection, cleaning, and replacement.

The clearance for servicing is 24 inches in front of the water heater

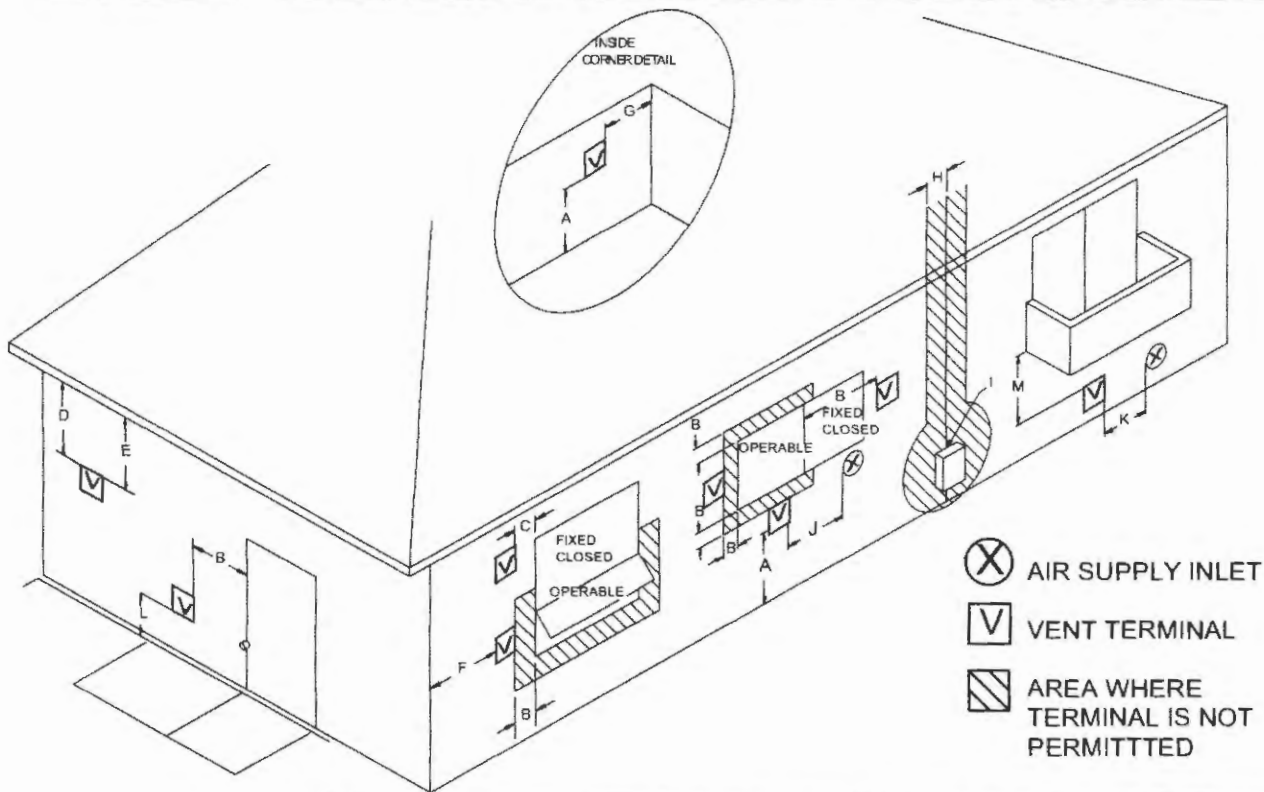
For closet installation: R50LSi, R75LSi, R94LSi: clearance is 6 inches (152 mm) from the front.
R98LSi: clearance is 24 inches (610 mm) from the front.

Attachment of the Water Heater

1. Identify the installation location and confirm that the installation will meet all required clearances.
2. Securely attach the water heater to the wall using any of the holes in the wall installation brackets which are at the top and bottom of the water heater. Ensure that the attachment strength is sufficient to support the weight. Refer to the weight of the water heater in the Specifications section.



Flue Terminal Clearances (ANS Z21.10.3 • CSA 4.3)



Ref	Description	Canadian Installations	US Installations
A	Clearance above grade, veranda, porch, deck, or balcony	12 inches (30 cm)	12 inches (30 cm)
B	Clearance to window or door that may be opened	36 inches (91 cm)	12 inches (30 cm)
C	Clearance to permanently closed window	*	*
D	Vertical clearance to ventilated soffit, located above the terminal within a horizontal distance of 2 feet (61 cm) from the center line of the terminal	*	*
E	Clearance to unventilated soffit	*	*
F	Clearance to outside corner	*	*
G	Clearance to inside corner	*	*
H	Clearance to each side of center line extended above meter/regulator assembly	3 feet (91 cm) within a height 15 feet (4.5 m) above the meter/regulator assembly	*
I	Clearance to service regulator vent outlet	36 inches (91 cm)	*
J	Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance	36 inches (91 cm)	12 inches (30 cm)
K	Clearance to a mechanical air supply inlet	6 feet (1.83 m)	3 feet (91 cm) above if within 10 feet (3 m) horizontally
L	Clearance above paved sidewalk or paved driveway located on public property	7 feet (2.13 m) ①	*
M	Clearance under veranda, porch, deck, or balcony	12 inches (30 cm) ②	*

① A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.

② Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

* For clearances not specified in *ANSI Z223.1/NFPA 54* or *CSA B149.1*, clearances are in accordance with local installation codes and the requirements of the gas supplier.