Form # P 04	DISPLAY	THIS	CARD	ON	PRINCIPAL	FRONTAGE	OF WORK
	_		CITY	O	F PORT	LAND	
Please Read Application An	d		BU	ILDI	NG INSPECT	ION	
Notes, If Any, Attached				P	ERMIT	Perm	nit Number: 101439
This is to certify	y that Wescot	t & Payson	/leff Donahi	10			

Wescott & Payson/Jeff Donahue

has permission to Install three (3) Rinnai heaters on the first, second and third floors.

AT 765 Ocean Ave

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.

CBL 423 A003001

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 lathed or otherwise closed in, 24	A certificate of occupancy must be procured by owner before this build- ing or part thereof is occupied.
OTHER REQUIRED APPROVALS	HOUR NOTICE IS REQUIRED.	
Health Dept		11
Appeal Board Other		///5
Department Name		Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD 📈

City of Portland, Maine - B	uilding or Use	Permit Application	n Permit No:	Issue Date:	CBL:
389 Congress Street, 04101 Te	l: (207) 874-8703	, Fax: (207) 874-871	6 10-1	439	423 A003001
Location of Construction:	Owner Name:		Owner Address: Phone: approximately and the second		
765 Ocean Ave	Wescott & Pay	/son	31 Old Campus Dr		
Business Name:	Contractor Name		Contractor Ad	dress:	Plaone
		149 Saco Ro	oad Standish	2073293808	
Lessee/Buyer's Name	Phone:		Permit Type: HVAC		Zone: R-3
Past Use:	Proposed Use:	rk.	Permit Fee:	Cost of Work:	CEO District: OP
Commercial	Gommerdial /	Install three (3)	\$120	.00 \$10,000.	00 4 FRVI
Duplay	Rinnai heaters and third floor	on the first, second s.	FIRE DEPT:		NSPECTION: Jse Group: Type: SB Maine Gas fangs
Proposed Project Description:			n gulan kalan karana karan	en e en el anti da en el anticipa el constato da el anticipa el anticipa el anticipa el anticipa el anticipa e	/_X
Install three (3) Rinnai heaters on	the first, second and	d third floors.	Signature: Signature:		
		(3) /3	PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
	DRAV	Ŵ	Action: Approved Approved w/Conditions Denied		
	Several contraction of the several s		Signature:		Date:
	e Applied For: 1/18/2010		Zoning Approval		
1. This permit application does r	not preclude the	Special Zone or Revie	ews	Zoning Appeal	Historic Preservation
Applicant(s) from meeting ap Federal Rules.		Shoreland		<i>l</i> ariance	Soft in District or Landmark
2. Building permits do not inclusive septic or electrical work.	de plumbing,	Wetland	Ш М	Aiscellaneous	Does Not Require Review
3. Building permits are void if w within six (6) months of the d				Conditional Use	Requires Review
False information may invalid permit and stop all work	False information may invalidate a building		[] Iı	nterpretation	Approved
		Site Plan	A	approved	Approved w/Conditions
		Maj Minor MM		Denied	Denied
		Date:) Date:		Date:
		11/19/17			

CERTIFICATION

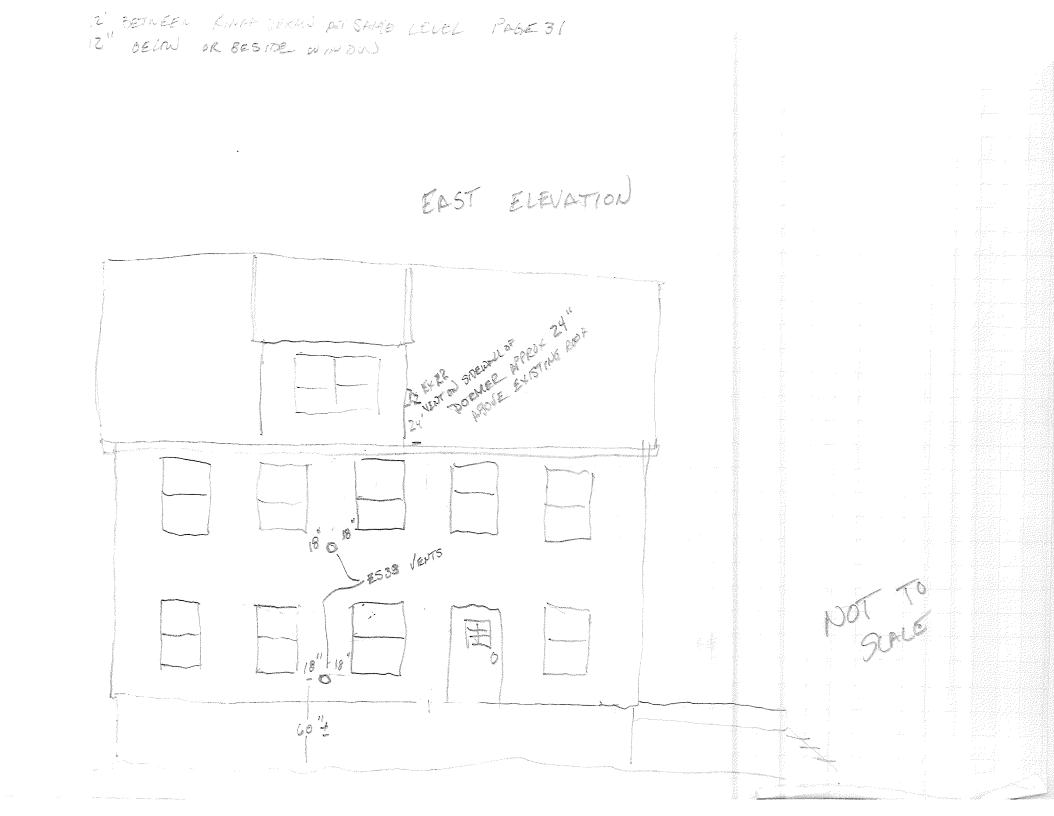
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, 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	ан талана ал салаа талан калан калан карактан караттар оронун доронун доронун улага бала калан калан калан кала Калан калан кал	DATE	PHONE

	ne - Building or Use Permit 01 Tel: (207) 874-8703, Fax: (20	승규는 승규는 가장에 가장 이 것을 많은 것을 것을 것을 것을 수 없는 것을 것을 수 있다. 것을	ate Applied For: CBL: 1/18/2010 423 A003001
Location of Construction:	Owner Name:	Owner Address;	Phone:
765 Ocean Ave	Wescott & Payson	31 Old Campus Dr	r none:
Business Name:	Contractor Name:	Contractor Address:	Phone
	Jeff Donahue		
Lessee/Buyer's Name	Phone:	149 Saco Road Standi Permit Type:	
		HVAC	
Proposed Use:		Proposed Project Description:	
Duplex / Install three (3) R floors.	innai heaters on the first, second and	third Install three (3) Rinnai heater	rs on the first, second and third floors.
	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 11/19/2010
Note:			Ok to Issue: 🔽
Dept: Building	Status: Approved with Conditions	Reviewer: Jonathan Rioux	Approval Date: 11/22/2010
Note:			
1) Maintain proper setback	s(s) from property lines/buildings and	proper clearances from vorticity	Ok to Issue: 🗹
			nings when direct venting.
	mply with the State of Maine Gas Re	-	
 Application approval ba and approrval prior to w 	sed upon information provided by ap york.	plicant. Any deviation from approve	ed plans requires separate review

389 Congress Street, 0	4101 Tel:	ilding or Use Permit (207) 874-8703, Fax: (2	207) 874-8716	Permit No: 10-1439	Date Applied For: 11/18/2010	CBL: 423 A003001
Location of Construction:		Owner Name:		Dwner Address:	.	
765 Ocean Ave		Wescott & Payson		31 Old Campus Dr		Phone:
Business Name:		Contractor Name:		Contractor Address:	· · · · · · · · · · · · · · · · · · ·	
		Jeff Donahue				Phone
Lessee/Buyer's Name		Phone:		149 Saco Road Sta	ndish	(207) 329-3808
		rnone:		Permit Type:		
			L	HVAC		
Proposed Use:		ters on the first, second and	Propose	I Project Description:		
floors.			an an the state			
Dept: Zoning	Status:	Approved	Reviewer:	Marge Schmucka	Approval Da	nte: 11/19/2010
Dept: Zoning Note:	Status:	Approved	Reviewer:	Marge Schmucka	• • • • • • •	nte: 11/19/2010 Ok to Issue: 🗹
Note: Dept: Building		Approved Approved with Conditions		Marge Schmucka Jonathan Rioux	• • • • • • •	Ok to Issue: 🔽
Note: Dept: Building		-		_	Approval Da	Ok to Issue: 🗹
Note: Dept: Building Note:	Status:	Approved with Conditions	Reviewer:	Jonathan Rioux	Approval Da	Ok to Issue: te: 11/22/2010 Ok to Issue:
Note: Dept: Building Note:) Maintain proper setba	Status: A	Approved with Conditions property lines/buildings ar	Reviewer: nd proper cleara	Jonathan Rioux	Approval Da	Ok to Issue: te: 11/22/2010 Ok to Issue:
Note: Dept: Building Note: 1) Maintain proper setba 2) The installation must	Status: ack(s) from comply wit	Approved with Conditions	Reviewer: nd proper cleara Regulations.	Jonathan Rioux	Approval Da	Ok to Issue: \checkmark ite: $11/22/2010$ Ok to Issue: \checkmark t venting.

FILL IN AND	SIGN WITH INK
	I FOR PERMIT
HEATING OR PO	WER EQUIPMENT
To the INSPECTOR OF BUILDINGS, Portland, ME.	423 A002000.
The undersigned hereby applies for a permit to just	all the fallow is a second second
Darge Daailek Do sie D	the City of Fortiana, and the following specifications.
Location / CBL 765 OCEAN Ave 04103	Hise of Ruilding De Law
Location / CBL 765 OCEAN Ave. 04103 Name and address of owner of appliance Learne 14ar 04102	
Installer's name and address Jeff Dona Lae 14	1 Saco Rd- Standish
	Telephone 329-3808
Location of appliance:	Type of Chimney:
□ Basement Floor S 1,2+3	Masonry Lined
□ Attic □ Roof	Factory built
Type of Fuel:	🗅 Metal
Gas 🖸 Oil 🗖 Solid	Factory Built U.L. Listing #
Appliance Name 2 Ringer CV22 eS38	
Appliance Name: Rinnai ey 22 es 38 U.L. Approved Q Yes Q No V531	Type ConcenteREGED
Will appliance be installed in accordance with the manufacture's	Type of Fuel Tank NOV 1 8 2010
installation instructions? X Yes 🖸 No	Oil
IF <u>NO</u> Explain:	Gas Dept. of Building Inspections City of Portland Maine
	Size of Tank
The Type of License of Installer:	2 derinont
Master Plumber #	Number of Tanks
Solid Fuel #	Distance from Tank to Center of Flame
□ Oil #	No cont A age
$\Box Gas # PN + 2334$	Cost of Work: § 10, 00000
• Other	Permit Fee: \$ 1000
Approved	Approved with Conditions
Fire:	See attached letter or requirement
Ele.:	Internet
Bldg.:	Inspector's Signature Date Approved
Signature of Installer	Inspector's Signature Date Approved
White Inspection Yellow - File Pin	k - Applicant's Gold - Assessor's Copy





	2-1	VENT ISTRUCTION EOR V53I EX22 + ES38 SAME
Rin		•
		V53iREU-VB2020FFU-US V53eREU-VAM1620W-US Certified for installation in manufactured (mobile) homes.
verse	L V53e	Table of Contents
		Register your product at www.rinnairegistration.com or call 1-866-RINNAI1 (746-6241) : Leave this manual with the appliance. : Retain this manual for future reference.
GERTIFIED	result caus	NING If the information in these instructions is not followed exactly, a fire or explosion may sing property damage, personal injury or death.
Energy STAR	liquids in f	ore or use gasoline or other flammable vapors and the vicinity of this or any other appliance. DO IF YOU SMELL GAS
(NSF.) V53i only	 Do not your bu Immedi Follow 	iately call your gas supplier from a neighbor's phone. the gas supplier's instructions. cannot reach your gas supplier, call the fire
ANS Z21.10.3 • CSA 4.3		n and service must be performed by a qualified service agency or the gas supplier.

Venting Instructions (V53i)

Intake / Exhaust Guidelines

Refer to the specific instructions on your vent product for additional installation requirements.

- This water heater is a direct vent water heater and therefore is certified and listed with the vent system. You must use vent components that are certified and listed with the water heater model.
- Do not combine vent components from different manufacturers.
- The vent system must vent directly to the outside of the building and use outside air for combustion.
- Venting should be as direct as possible with a minimum number of pipe fittings.
- Avoid dips or sags in horizontal vent runs by installing supports per the vent manufacturer's instructions.
- Support horizontal vent runs every four feet and all vertical vent runs every six feet or in accordance with local codes.
- Vent diameter must not be reduced.
- Do not connect the venting system with an existing vent or chimney.

Condensate

Condensate formation can occur in high efficiency direct vent appliances. To prevent condensate damage follow these instructions.

- Vertical terminations must incorporate a condensate drain and trap as close as possible to the appliance.
- The V53i water heater has an integrated condensate collector.
- Rinnai offers a condensate trap.
- Regions of cold climate will create more condensate in the vent system. The condensate collector should be used in cold climates.
- Use only vent that is approved and identified as acceptable for your particular model.
- Do not use PVC, CPVC, ABS or galvanized material to vent this appliance.
- Slope the venting toward the appliance according to the vent manufacturers installation instructions.
- All condensate must drain and be disposed of per local codes.
- Use only PVC or CPVC pipe for the condensate drain line.
- The condensate drain pipe should be as short as possible and have a downward pitch.
- Do not connect the condensate drain pipe directly to the rain sewer.

- Do not common vent with the vent pipe of any other water heater or appliance.
- Vent connections must be firmly pressed together so that the gaskets form an air tight seal.
- The vent piece connected to the water heater must be secured with one self-tapping screw.
- Refer to the instructions of the vent system manufacturer for component assembly instructions.
- If the vent system is to be enclosed, it is suggested that the design of the enclosure shall permit inspection of the vent system. The design of such enclosure shall be deemed acceptable by the installer or the local inspector.

NOTICE

If it becomes necessary to access an enclosed vent system for service or repairs, Rinnai is not responsible for any costs or difficulties in accessing the vent system. Warranty does not cover obtaining access to an enclosed vent system.

WARNING

The condensate trap must be primed before operation to prevent exhaust gases from entering the building.

NOTICE

Provisions must be made to prevent the condensate from entering the water heater. Without proper drainage or disposal, condensate will damage the heat exchanger.

- The condensate drain pipe (along its entire length) must be at least the same diameter as the drain line.
- The end of the condensate drain pipe should be open to the atmosphere. The end should not be under water or other substances.
- Do not connect the condensate drain line with an air conditioning evaporator coil drain.
- To minimize freezing of the condensate, run the condensate drain line through an interior wall or between insulation and an interior wall.
- The condensate collector should be used for all hydronic heating applications.

Venting Instructions (V53i)

Maximum Vent Length

- 1. Determine the number of 90 degree elbows in the vent system. (Two 45 degree elbows count as one 90 degree elbow.)
- 2. Refer to the table to find the maximum vent length based on the number of elbows.
- 3. Follow the applicable note.
- Example: If you have one elbow then your maximum vent length is 35 feet (10.7 m). If your actual length is greater than 15 ft (4.6 m) then move switch no. 1 (SW1) to OFF.

			Num	ber of 90° E	lbows		
	0	1	2	3	4	5	6
100	41 ft ① (12.5 m)	35 ft	29 ft ③ (8.8 m)	23 ft	17 ft ④ (5.2 m)	11 ft	5 ft

Notes 0034

Switch No.

- If the length is greater than 21 ft (6.4 m) then move switch no. 1 (SW1) to OFF.
- If the length is greater than 15 ft (4.6 m) then move switch no. 1 (SW1) to OFF.
- ③ If the length is greater than 9 ft (2.7 m) then move switch no. 1 (SW1) to OFF.
- Move switch no. 1 (SW1) to OFF.

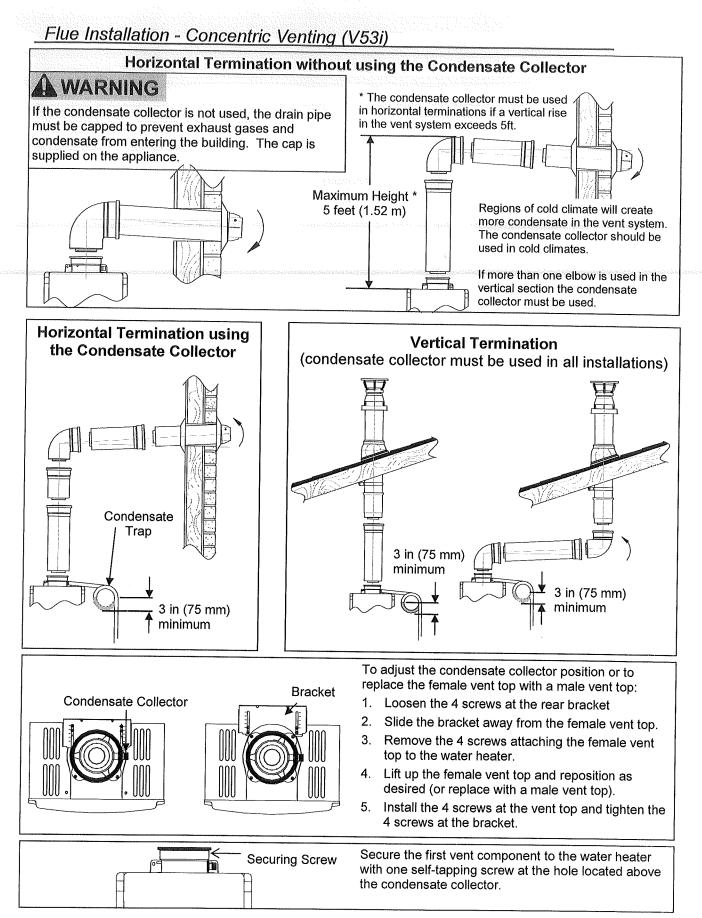
NOTICE

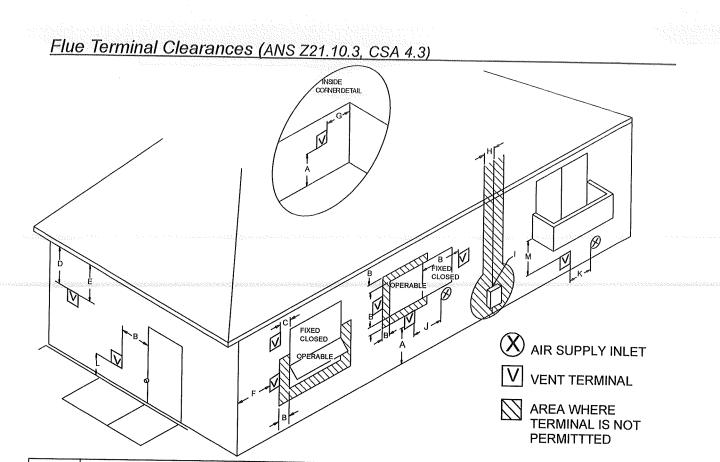
If you have a longer vent length, switch no. 1 is required to be in the OFF position. This ensures the water heater will run properly. Blocked flue error codes and shutdowns may result if switch no. 1 is not in the correct position.

Vent Products

Listed and Tested Vent Products for V53i.....REU-VB2020FFU-US

wanulact	urer	Product		Parts		
Rinnai/Ub	bink	Rolux Vent System				
Heat-Fab Saf-T Vent SC sy Metal-Fab Corr/Guard Ver		system	Refer to the manufacturer's technical literature for			
		Corr/Guard Ve	Corr/Guard Vent/Air		specific part numbers and instructions.	
		ct Information fo	or Installat	ion Instructio	ns and Part	s Lists:
Rinnai/Ubbink	-	Heat-Fab			Metal-Fab	lnc.
T . I I	-621-9419	Telephone:	000 770 0			
Telephone: 800-	021 0 110	relephone.	800-772-0	739	Telephone:	800-835-2830
	-829-1666	Fax:	413-863-48		Telephone:	800-835-2830 316-943-2351
Fax: 678-		•	413-863-48		Telephone: Fax:	
Fax: 678-	-829-1666	Fax:	413-863-48	803 ieat-fab.com	·	316-943-2351





Ref	Description	Canadian Installations	US Installations
A	Clearance above grade, veranda, porch, deck, or balcony	12 inches (30 cm)	12 inches (30 cm)
В	Clearance to window or door that may be opened	36 inches (91 cm)	12 inches (30 cm)
С	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	*	*
Н	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)
К	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	*
М	Clearance under veranda, porch, deck, or balcony	12 inches (30 cm) @	*

O 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.

Clearance to opposite wall is 24 inches (60 cm) for Canada and US.

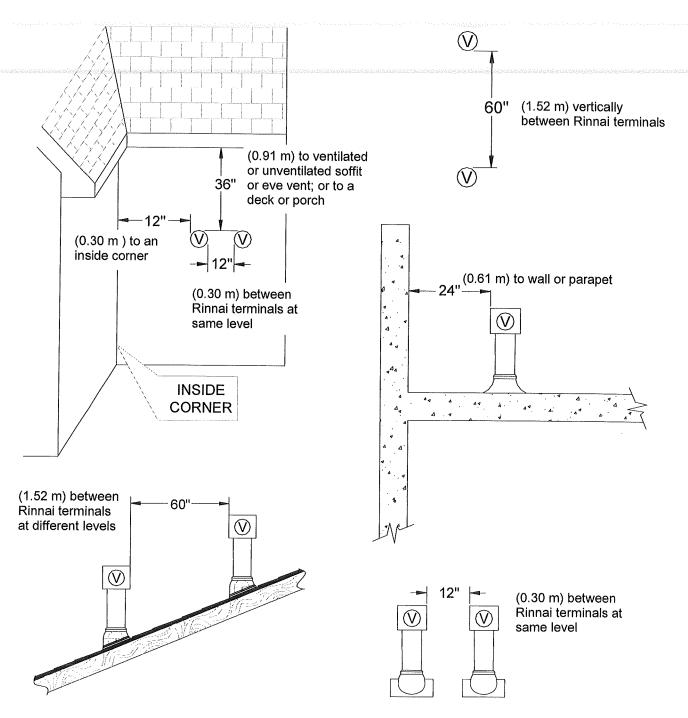
V53i & V53e Operation and Installation Manual

Additional Clearances (V53i)

Local codes supersede these clearances.

- Avoid termination locations near a dryer vent.
- Avoid termination locations near commercial cooking exhaust.

\bigvee) Vent terminal (represents concentric vent terminal)

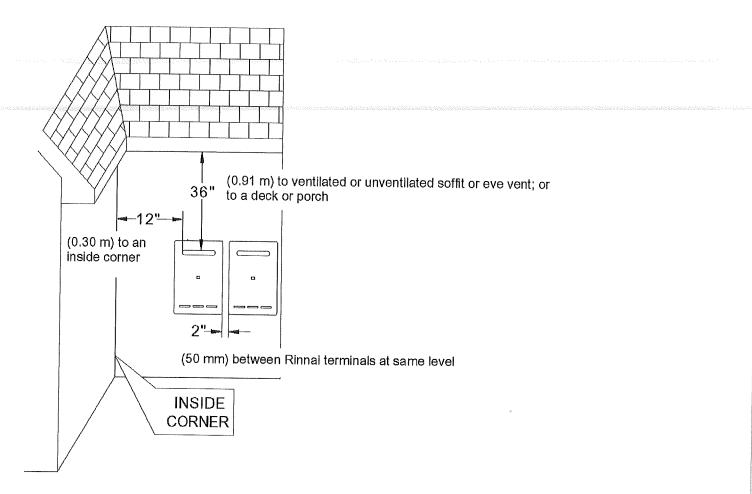


V53i & V53e Operation and Installation Manual

Additional Clearances (V53e)

Local codes supersede these clearances.

- Avoid termination locations near a dryer vent.
- Avoid termination locations near commercial cooking exhaust.

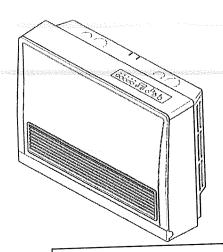


\$ KZZC Owner's Operation and Installation Manual for the EX17C (RHFE-434FTA) EX22C (RHFE-559FTA)





Energysaver® Gas Direct Vent Wall Furnace



	-
Table of Contents	.2
Consumer Safety Information	3
Specifications	4
Operating Instructions	6
Installation Instructions	15
Adjust Gas Pressure Settings	28
Consumer Support	
French Version	

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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

WHAT TO DO IF YOU SMELL GAS

•Do not try to light any appliance.

•Do not touch any electrical switch; do not use any phone in your building.

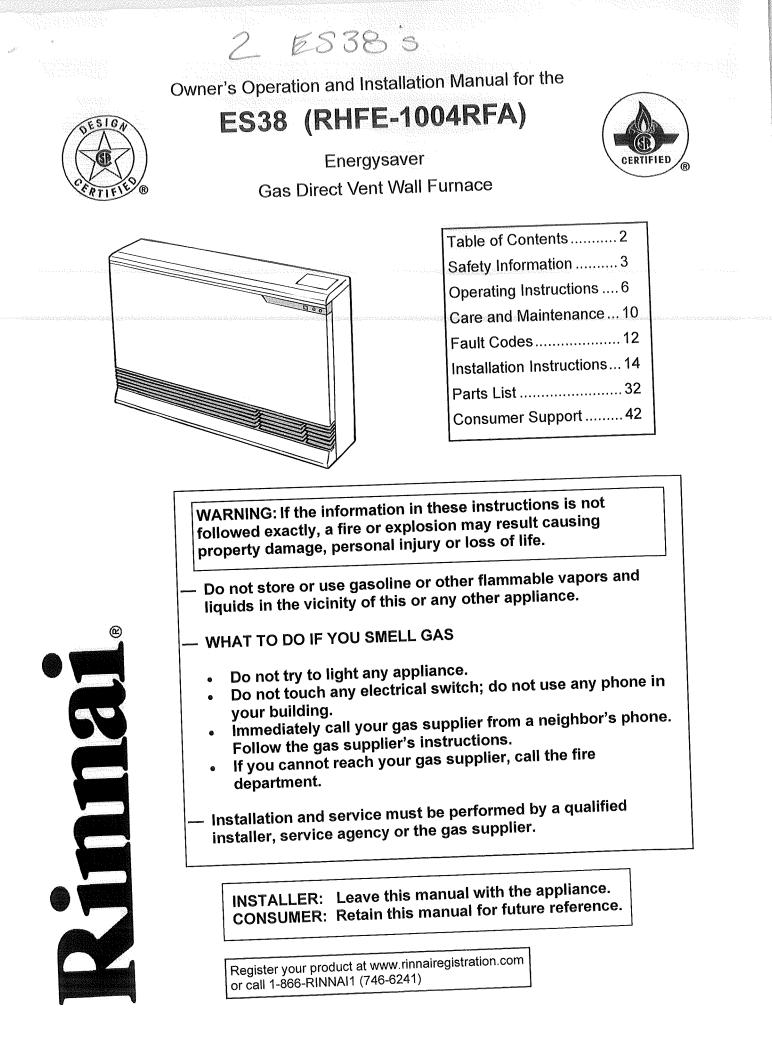
 Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.

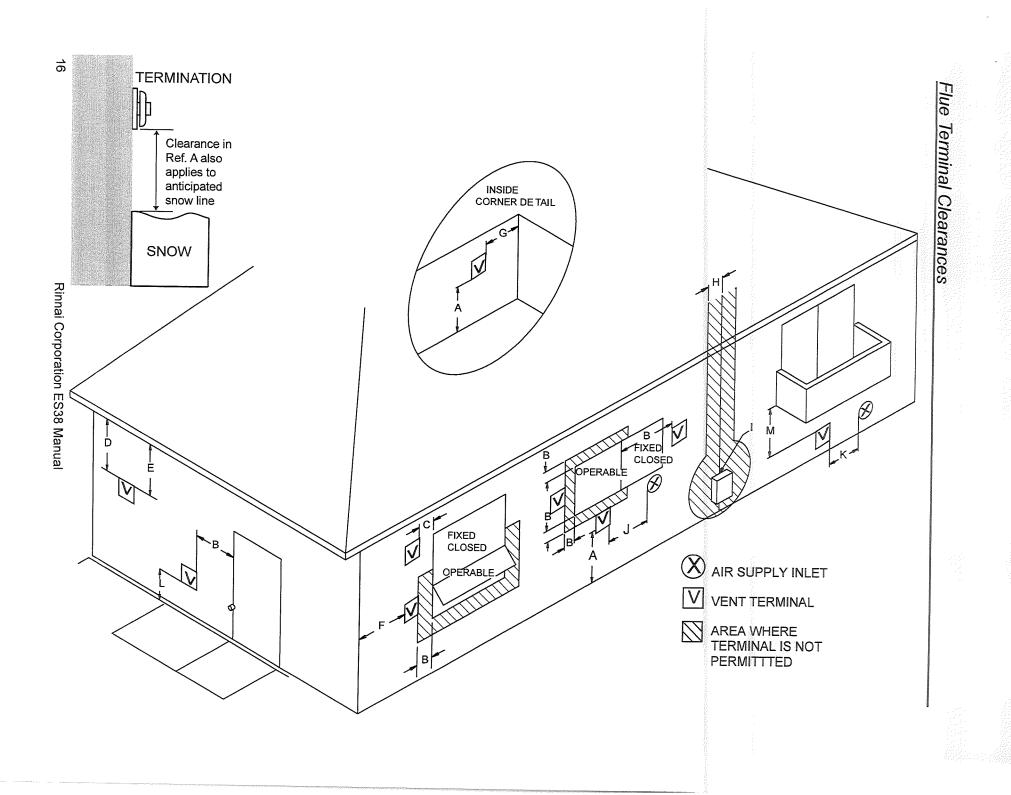
- •If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

INSTALLER: Leave this manual with the appliance. CONSUMER: Retain this manual for future reference.

> Register your product at www.rinnairegistration.com or call 1-866-RINNAI1 (746-6241)

@





Flue Terminal Clearances

Ref	Description	Canadian Installations	US Installations	
A	Clearance above grade, veranda, porch, deck, or balcony. (Take into account the anticipated snow line)	12 inches (30 cm)	12 inches (30 cm)	
B	Clearance to window or door that may be opened	6 inches (15 cm) for appliances \leq 10,000 BTUh; 12 inches (30 cm) for appliances > 10,000 BTUh and \leq 100,000 BTUh, 36 inches (91 cm) for appliances > 100,000 BTUh	6 inches (15 cm) for appliances \leq 10,000 BTUh; 9 inches (23 cm) for appliances > 10,000 BTUh and \leq 50,000 BTUh, 12 inches (30 cm) for appliances > 50,000 BTUh	
С	Clearance to permanently closed	Gel lagrapping delay any source of the second s	*	
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	20 inches (50 cm)	20 inches (50 cm)	
Н	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	*	
l	Clearance to service regulator vent	3 feet (91 cm)	*	
J	Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance	6 inches (15 cm) for appliances ≤ 10,000 BTUh; 12 inches (30 cm) for appliances > 10,000 BTUh and ≤ 100,000 BTUh, 36 inches (91 cm) for appliances > 100,000 BTUh	6 inches (15 cm) for appliances ≤ 10,000 BTUh; 9 inches (23 cm) for appliances > 10,000 BTUh and ≤ 50,000 BTUh, 12 inches (30 cm) for appliances > 50,000 BTUh	
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	7 feet (2.13 m) ①	*	
М	Clearance under veranda, porch, deck, or balcony	eck, flammables (30 cm) to non- flammables (30 cm) to non- flammables (30 cm) flammables (30 cm) flammables 24 inches (60 cm) to flammables (60 cm) flammables		

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.

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.

Flue Manifold Installation

- The flue manifold must exhaust to the outside. Do not exhaust into other rooms.
- The flue manifold is not designed to be positioned under floors or below the heater.
- The termination cannot be vertical.
- 1. Disassemble the flue manifold

The flue consists of 3 parts:

- sleeve
 - inside connection
 - outside terminal

Disassemble the flue manifold by first pulling out the inside connection. To remove the outer terminal pull and release the two internal ties and then pull out the outer terminal.

Clearance to combustibles for the sleeve and flanges is zero inches.

2. Adjust the sleeve length

Measure wall thickness through previously drilled 3 1/8 inch (80 mm) hole.

The end of the sleeve should protrude 3/16 - 3/8 inch (5-10 mm) from the outside wall.

The sleeve is threaded for adjustment. Adjust the sleeve length to wall thickness plus 3/16 - 3/8 inch (5-10 mm).

NOTE: Do not extend beyond the red line.

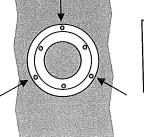
For other than the "S" type flue manifold, if a shorter length is necessary an extension can be removed. Cut the plastic and remove the extension.

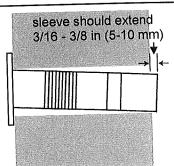
3. Attach the sleeve

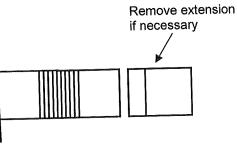
Attach to the inside wall using 3 screws arranging the flange so that the marking "TOP" is at the top.

The flange is offset 2° to allow the condensate drain to the outside.

3 screws







Sleeve

five types of Rinnai flue kits. The flue kits and their dimensions are listed on the previous page.Refer to the Flue Terminal Clearances section.

Inside Connection

Terminal

This appliance can only be used with one of the

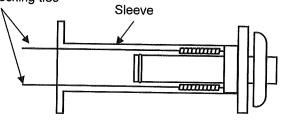
Flue Manifold Installation

4.Install the Terminal Check that the terminal seal is in place. For weatherboard walls, add the second seal next to the terminal seal to compensate for weather board angle. From the outside insert the terminal into the sleeve with the marking "TOP" at the top. The left hand side locking tie should be marked "LEFT". Terminal seal "Terminal seal to compensate for weather board angle.

6. Lock the ties

Pulling hard on the left and right hand ties, clip the ties over the notches inside the sleeve. You should be able to pull the ties 2 or 3 notches past the starting point. Cut the ties, leaving about 3/4 inch (20 mm) past the notch. Bend the ties back into the sleeve and parallel to the wall.

Locking ties

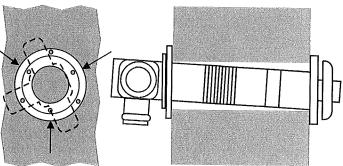


7. Insert Inside Connection Assembly

Push the assembly into the terminal tube, ensuring that the seal is in place on the inner tube.

Attach the inside connection with 3 screws. The inner connection can still be turned to install the screws.

3 screws

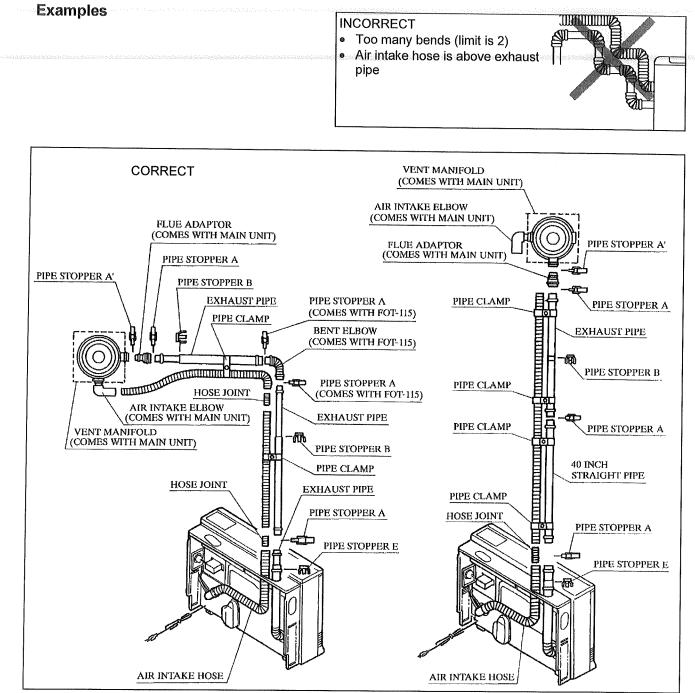


Extension Kit Installation

If necessary, extension kits are available to extend the exhaust line and air intake hose between the manifold and the appliance. The maximum vent length is 13 feet (4 m) with 2 bends. The bent pipe attached to the appliance does not count toward the max limit of 2 bends. Any length (horizontal and vertical) in excess of 8 feet (2.4 m) must be sloped 3° downward toward the flue manifold to allow condensate to drain to the outside. Do not allow any low points in the exhaust line where condensate will collect.

Vent extensions installed in unconditioned air space must be insulated with high temperature insulation and must be accessible.

Vent extensions must not be concealed per NFPA 54 and must be accessible allowing inspection and repair. Decorative covers are available from Rinnai.



Rinnai Corporation ES38 Manual

Extension Kit Installation

CAUTION

Use the pipe stoppers, connectors, clamps, and screws according to these instructions in order to ensure no leakage of exhaust gases.

Clearances

exhaust pipe to combustibles	1 inch (25.4 mm)
exhaust pipe to non-combustibles	zero

Clamps

Both the exhaust line and air intake hose are supported by clamps which are attached to the wall. A wall fixture can be used to offset the clamp from the wall. Use Screw B to attach the wall fixture to the wall. If the wall fixture is not used then use Screw A and the nut to attach the clamp to the wall.

The air intake hose should always be underneath the exhaust line so that in case the air intake hose sags it will not come into contact with the exhaust line.

Installing the Exhaust Line

The exhaust line is connected between the bent pipe at the rear of the heater and the exhaust port on the flue manifold.

To connect exhaust pipes with other straight pipes or bends, fit the male end into the female end. Use pipe stopper A to clamp the connection.

Use pipe stopper B to fix the length on the adjustable exhaust pipes. Do not extend these pipes beyond the red line.

Do not cut the exhaust pipe. Use the adjustable pipes if necessary.

To bend the elbow, insert exhaust pipes into both ends for additional leverage. Bend to desired angle.

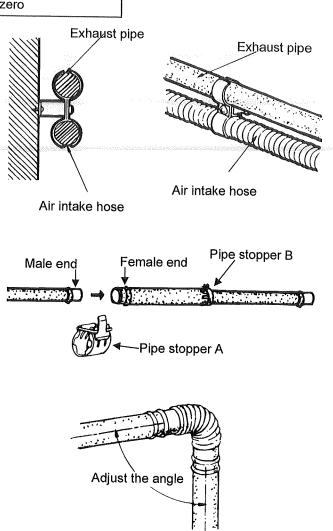
Do not straighten the bent pipe attached to the appliance.

Connecting the Air Intake Hose

The air intake hose is connected between the air connection at the rear of the heater and the air intake port on the flue manifold.

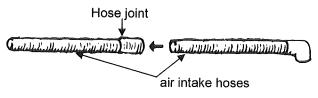
Push the air intake hose onto the flue manifold and secure with the plastic cable tie.

Join air intake hoses by screwing the hose joint half of its length into the air intake hose and then screwing another air intake hose into the hose joint.



The lengths of the air intake hose and the exhaust pipe must be the same in order for the appliance to operate properly. The hose can be cut to the required length. Deburr all rough edges. Do not cut the hose attached to the appliance.

Support the air intake hose with pipe clamps.



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A FOT-102(11. B FOT-103(21.	4-20.3 inch) Ext 0-39.6 inch)	ension Kits and Parts		
		P	\approx	
() EXHAUST PIPE		⑥ PIPE STOPPER A	9 PIPE CLAMP	12SCREW A
②EXHAUST PIPE(STRAIGHT) 40 inch	Ö		§
A FOT-102(2 B FOT-103(4 C FOT-114(5	19.2 inch) 90.6 inch)	⑦ PIPE STOPPER B	10WALL-FIXTURE	13SCREW B
BAIR INTAKE HOS	- Construction of the second		٩	\bigcirc
		(8) TOP STOPPER	10 NUT	¹ O RING
∎ DBENT ELBOW	5HOSE JOINT			

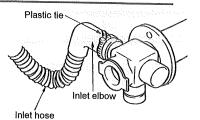
ltem	Description	Part No.	FOT-102	FOT-103	FOT-114	FOT-115
1	Exhaust Pipe (adjustable) 11.4-20.3 in (290-515 mm)	FOT 111-1	1			
1	Exhaust Pipe (adjustable) 21.0-39.6 in (533-1005 mm)	FOT 112-1		1	1	
2	Exhaust Pipe - 40 in (1016 mm)	FOT 114-3			1	
3	Air Intake Hose - 29.5 in (750 mm)	RHF 1000-130-e	1			
3	Air Intake Hose - 49.2 in (1.25 m)	RHF 1000-130-b		1		
3	Air Intake Hose - 90.6 in (2.3 m)	RHF 1000-130-F			1	······
4	Bent Elbow	FOT 025-4				1
5	Hose Joint	FOT 064-8	1	1	1	
6	Pipe Stopper A	1001F-250	1	1	2	2
7	Pipe Stopper B	FOT 111-6	1	1	1	
8	Top Stopper	FOT 062-7	1	1	1	
9	Pipe Clamp	FOT 064-11	2 sets	3 sets	4 sets	
10	Wall Fixture	FOT 064-12	2	3	4	
11	Nut	FOT 062-10	2	3	4	
12	Screw A	ZAA0420SC	2	3	4	1997 - Allinois I.
13	Screw B	CP-30408	4	6	8	
14	O Ring	M10B-4-49				1

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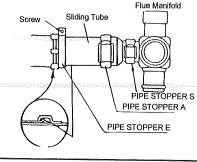
Connecting the Appliance

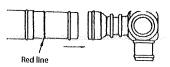
- 1. Attach flue adapter to the flue manifold with pipe stopper S.
- Attach the air inlet hose to the flue manifold. Secure with plastic tie. The unused inlet is plugged with the rubber cap supplied on the manifold.
- Flue Adapter

Pipe stopper S

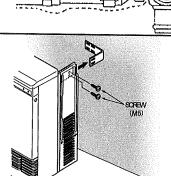


 Connect the vent sliding tube with pipe stopper S and E. The sliding tube should not be extended beyond the red line. The red line should not be visible after sliding the tube into the vent outlet.

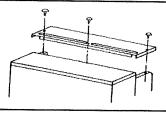




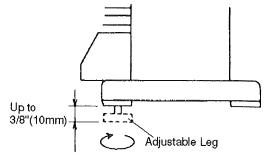
- 4. Slide the insulation sleeve up to the flue manifold and slip the securing clip over the sleeve as shown.
- 5. Attach the appliance to the wall brackets, using 2 screws at each bracket.



6. Attach the back spacer with 3 screws to the top of the appliance.



7. If necessary, the appliance can be leveled using the adjustable legs under the front right and left legs.



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CITY OF PORTLAND, MAINE Department of Building Inspections

Original Receipt

	1	Jas. 15 2010		
Received from	Dans	« Danielan		
Location of Work	565	Daar live		
Cost of Construction	\$	Building Fee:		
Permit Fee	s	Site Fee:		
Certificate of Occupancy Fee:				
/		Total:		
Building (IL) Plu	umbing (15)	Electrical (I2) Site Plan (U2)		
Other				
CBL: 493 ADO3				
Check #:	sh_	Total Collected s_ 190.00		
No work is to be started until permit issued.				

Please keep original receipt for your records.

Taken by:

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