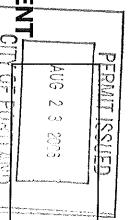
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE	SIGNATURE OF APPLICANT ADDRESS DATE	CERTIFICATION  he owner of record of the named property, or that the proposed work is authorized by the owner to make this application as his authorized agent and I agree to conform to a fa permit for work described in the application is issued, I certify that the code officienter all areas covered by such permit at any reasonable hour to enforce the provision	Date: Date: Date	Maj   Minor   MM   Denied	Site Plan Approved	False information may invalidate a building Subdivision	3. Building permits are void if work is not started	2. Building permits do not include plumbing, ☐ Wedand ☐ Miscellaneous	I. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.  Special Zone or Reviews Zoning Appeal  Shoreland  Shoreland	Idobson 08/18/2006 Zoning Approval	Signature:	Action: Approved Approved MC	Proposed Project Description:  install a direct vent rinnai on the 1st fir & Second Fir  PEDESTRIAN ACTIVITIES DISTRICT (P.	Duplex- install a direct vent rinnai \$60.00   \$3,700.00   on the 1st fir & Second Fir FIRE DEPT: Approved Use Gro	Proposed Use: Permit Fee: Cost of Work:	yer's Name Phone:	tbrook	40 ARCADIA ST CORMIER JEFFREY S 40 ARCADIA ST 9707 5 7 50	Maine - Buil 04101 Tel: (2
DATE	DATE	uthorized by the owner conform to all applicate code official's author the provision of the co	Date:	رم []						Approval	Date:		THES DISTRICT (P.A.D.)	\$3,700.00  Approved INSPECTION: Denied Use Group:			ř .	2 2 DUN	
PHONE	PHONE	the owner of record and that ull applicable laws of this al's authorized representative n of the code(s) applicable to	The state of the s	Denied	Approved w/Conditions	Approved	Requires Review	Does Not Require Review	Historic Preservation  Not in District or Landmark			itions Denied	Millingh	1) 23 CC	CEO District:	Zone:	Phone 2077975408	Phone:	CBL: 1 <b>3</b> 27 F009001



## FILL IN AND SIGN WITH INK



# HEATING OR POWER EQUIPMENT APPLICATION FOR PERMIT

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:

Fire:  Approved  Fire:  Bldg:	The Type of License of Installer:       Num         □ Master Plumber #_       Num         □ Solid Fuel #       Dista         □ Oil #       Cost         □ Other_       Perm	Type of Fuel:  Gas Goll Gold  Appliance Name: Cirrag  U.L. Approved X Yes G No  Will appliance be installed in accordance with the manufacture's installation instructions? X Yes G No  IF NO Explain: P	Floor 1st まっため Roof	Name and address of owner of appliance Holem Hill 46 Installer's name and address Daminic DiBiase  SZ Constitution Dr.  Westbrook me of 092	2 Q. 197-7.9 u
Approved with Conditions  See attached letter or requirement  Inspector's Signature  Date Approved	Number of Tanks  Number of Tanks  Distance from Tank to Center of Flame feet.  Cost of Work: \$ 3760.00  Permit Fee: \$ (20)	Factory Built U.L. Listing #  By Direct Vent Type Twterral  Type of Fuel Tank  Oil  Gas	Type of Chimney:  Masomy Lined Factory built	to Acadia St., Parland, Me.  Telephone 797-5408	

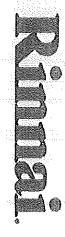
White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

City of Portland, Maine - Building or Use Permit 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (Construction: Owner Name:	Olty of Portland, Maine - Building or Use Permit  389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716  Location of Construction: Owner Name:	07) 874-8716 ow	Permit No:  06-1218  Owner Address:	Date Applied For: 08/18/2006	CBL: 427 F009001 Phone:
40 ARCADIA ST	CORMIER JEFFREY S	0w 40	Owner Address: 40 ARCADIA ST		Phone:
Business Name:	Contractor Name:	Cor	Contractor Address:		Phone
777	Dominic DiBiase	52	52 Constitution Drive Westbrook	e Westbrook	(207) 797-5408
Lessee/Buyer's Name	Phone:	Per	Permit Type:		
THE PARTY OF THE P		H	HVAC		
Proposed Use:	S.ACons	Proposed P	Proposed Project Description:	****	***************************************
Duplex- install a direct vent rinnai on the 1st flr & Second Flr	nai on the 1st flr & Second Flr	install a d	install a direct vent rinnai on the 1st fl	n the 1st fir & Second Fir	nd Fir
Dept: Building State	Status: Approved with Conditions	Reviewer: Mike Nugent	like Nugent	Approval Date:	ite: 08/23/2006
The state of the s					Ok to Issue:
I) The installation must compl-	1) The installation must comply with the State of Maine Gas Regulations.	egulations.			
Dept: Fire State	Status: Approved	Reviewer: Cptn Greg Cass	ptn Greg Cass	Approval Date:	
TORE:					te: 08/22/2006



## RIFE-1004TA

## Direct Vent Wall Furnace EVERGYSAVER

	Gas Supply Pressure:	Efficiency Rating:	Gas Rate (Output):	Gas Rate (Input):	Rinnai model number:
Max:		k§4.11645	Low: High:	Low: High:	
5" 10.5"	wc	80.8%	8,400 30,700	Btu/br 10,500 38,400	<u>Natural Gas</u> RHFE-1004FA-N
13.0"	wc	81.8%	8,400 29,200	Btw/hr 10,500 36,500	<u>Propane</u> RHFE-1004FA-P

Fan forced flue gas furnace

Electrical – AC 120V 60Hz 47 watts Gas – ½" FNPT

Stainless steel Bunsen burner

Combustion System:

Connections:

Description:

Continuous spark

ON/OFF, Up/Down, Function-lock, Economy

Energy savings feature

Capacity - 7 pints (3000cc)

Approx. 90 lbs

Weight:

Humidifier Tray: Economy Mode: Operating Buttons: Ignition System:

Clearance from Combustibles:

Side: 2" Top: 10"

Front: 40"

Dimensions: 9 13/16" (250) 6 1/2" (185) 6 5/16 (160) 40 1/2" (1029) 36 5/E" (930) 13 3/4" (H350) Cavity Opening 11 13/16" (300) 15 5/8" (397) GAS CONNECTION 26 3'8' (670) 域域。 77/8" (200) -1/2" (1:5) 123/8" (315) 13 (330)

RHFE-1004FA Zinnai.

www.rinnai.us

## **RIFE-1004**FA

Warm Air Outlet:

Fan CFM Output:

Operation:

Temperature Control:

Temperature Range:

Safety Devices:

Bottom front louvers

Low: 203.4

High: 360.6

Finger touch control buttons

Electronic thermostat HI-LOW/OFF, Up/Down switch 2°F increments

LOW=55°F 60°F~80°F HI=High Combustion

Flame failure – flame rod

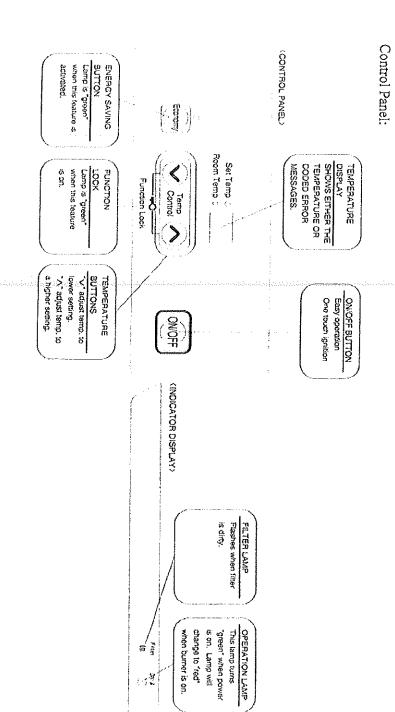
Over heat – Bi-metal switch, thermal fuse, thermistor

Power failure - PCB

Power surge - 5 Amp fuse

Fan delay - Micro computer timer

Pre-purge — Combustion fan, pre-purge timer, spark sensor Room over heat — Automatic cut off at 104°F after 10 minutes Child Safety Lock



# GAS CONNECTION

- -4 to meet the maximum demand of the heater without loss of pressure The gas supply line shall be gas-light, sized and so installed as to provide a supply of gas sufficient
- 'n A shut off valve (and appliance connector valve) should be installed in the upstream of the gas line to permit servicing.
- ω Flexible pipe and any appliance connector valve used for gas piping shall be types approved by nationally recognized agencies.
- 4. of liquefied petroleum gas. Any compound used on the threaded joint of the gas piping shall be a type which resists the action
- Ņι Supplied gas pressure must be within the limits shown in the specifications
- ဂ္ဂာ solution, as applicable, tightness by means of leak detector solution, soap and water, or an equivalent nonflammable After completion of gas pipe connections, all joints including the heater must be checked for gas

cracking, the piping shall be rinsed with water after testing, unless it has been determined that the leak test solution is noncorrosive; CAUTION: Since some leak test solutions, including soap and water, may cause corrosion or stress

.7 The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 P.S.I (3.5kPa).

shut off valve during any pressure testing of the gas supply system at test pressures equal to or less than 1/2 psig. The appliance must be isolated from the gas supply piping system by closing its individual manual

ထ One 1/8" test plug is provided for testing of manifold pressure see schematic for location. (On page 43,

manometer connection, immediately up stream of the gas supply connection to the appliance At time of installation installer must supply a 1/8" N.P.T. plugged tapping, accessible for test

### CANADIAN VENT REGULATIONS CAN/CGA-B149.1-M91

A vent shall not terminate

- $\widehat{\mathfrak{g}}$ single family dwellings and serves both dwellings; Directly above a paved sidewalk or paved driveway which is located between two
- 9 less than 7 ft. (2.13m) above a paved sidewalk or a paved driveway located on public property;
- 0 within 6 ft. (1.8m) of a mechanical air supply inlet to any building
- <u>a</u> above a meter/regulator assembly within 3 ft. (900mm) horizontally of the vertical centerline of the regulator;
- <u>@</u> within 6 ft. (1.8m) of any gas service regulator vent outlet;
- $\odot$ less than 1 ft. (300mm) above grade level;
- <u>@</u> within the following distances of a window or door which can be opened in any inlet of any other appliance building, any non-mechanical air supply inlet to any building or the combustion air
- $\equiv$ 1 ft (300mm) for inputs up to and including 100,000 Btuh (30kW)
- 3 ft (900mm) for inputs exceeding 100,000 Btuh (30kW); and
- $\widehat{\Xi}$ underneath a veranda, porch or deck, unless
- the veranda, porch or deck is fully open on a minimum of two sides beneath the floor, and
- the distance between the top of the vent termination and the underside of the veranda, porch or deck is greater than 1 ft. (300mm).

# FOR COMPLIANCE TO NFPA 54 OR Z223.1 U.S.A

away. Vent terminal must be located at least 3 feet above any forced air inlet location within 10 feet

equipment where condensate could be a problem. Vent terminal must not be located over public walk ways or be detrimental to regulators and

Vent terminal must be kept clear of snow at all times

grade. The bottom of the vent terminal and the air intake must be located at least 12 inches above

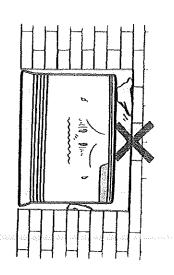
termination clearance. such an appliance with an input over 50,000 Btu per hour shall require a 12inches vent located at least 9 inches form any opening through which flue gases could enter a building, and The vent terminal of a direct vent appliance with an input of 50,000 Btu per hour or less shall be The bottom of the vent terminal and the air intake shall be located at least

# LOCATION/CLEARANCES

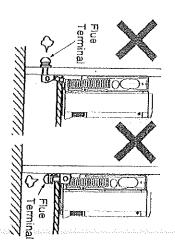
governing the location are: When positioning the heater the main points

- Flueing
- ioWarm air distribution

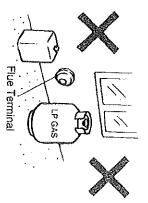
This heater is not designed to be built in.



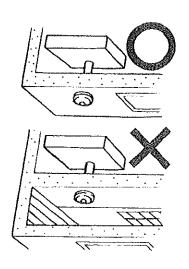
floors, or below the level of the heater. The flue is not designed to be positioned under



flammable materials. The flue terminal should be positioned away from



this unit can only be used with one of the five types of Rinnai flue kits. Do not flue unit into other rooms. Flue terminal must be outside. Do not flue into natural draught flues or fireplaces,

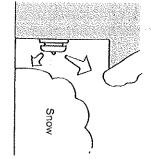


windows, with a minimum clearance of 9" (230mm). Flue may be positioned directly under opening

#### FLUE SIZES:

- 5 Flue lengths are available.
  S flue walls 3"~4 1/2" (75~115mm)
- $\supset$ flue walls  $4 \frac{1}{2} \sim 9 \frac{1}{2} (115 \sim 240 \text{mm})$
- flue walls 9 1/2"~15 3/4" (240~400mm)
- D C Bflue walls 15 3/4"~23 5/8" (400~600mm)
- flue walls 23 5/8"~31 1/2" (600~800mm)

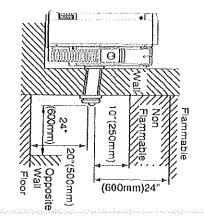
#### SNOW AREAS



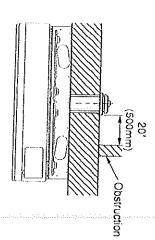
In areas subject to heavy snowfall, keep snow clear of flue terminal at all times.

STANDARD INSTALLATION OF FLUE MANIFOLD. Diagram below shows minimum clearances and distances from obstructions.

Also check local regulations.



#### Side Clearances



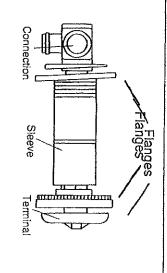
# LEEVE AND MANIFOLD INSTALLATION

# METHOD FOR STANDARD WALLS

1. Disassemble Manifold from Sleeve

The flue consists of 3 parts, sleeve, inside connectors and tube, outside terminal; (dis-assembly by pulling hard on outside terminal and inner connections, then pull sleeve off outer terminal.)

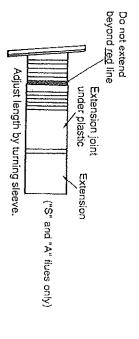
Note: Clearance to combustibles for terminal assembly sleeve and flanges is 0 assembly sleeve and flanges is 0.



Adjustment of Sleeve Length.

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

End of sleeve should protrude 3/16"~3/8" (5~10mm) from outside wall. Adjust sleeve length to wall thickness plus 3/16"~3/8" (5~10mm). (Sleeve is threaded for adjustment.) Do not extend beyond red line.



For S and A flue only.

Depending on flue set and wall thickness extension piece "C" may need to be removed.

Cut plastic, remove extension, then follow instruction 2.

This applies to "S" and "A" flues only.

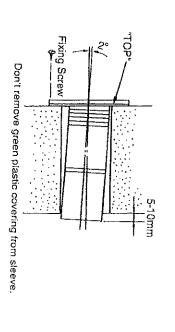
There is no extension on other flues, they can be fully adjusted by turning the threaded section.

A" Flue only point it necessary.

Fixing Sleeve.

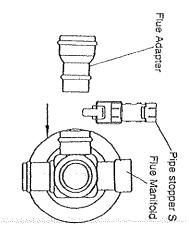
Fix to the wall, using the 3 screws provided

NOTE: The flange is marked "TOP", sleeve must be fitted with this mark Up. Check sleeve protrudes 3/16" ~3/8" (5~10mm) on the outside.

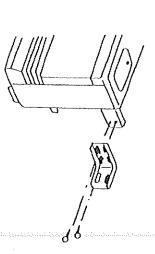


#### ဖှ "TOP" mark is uppermost. Fix with 3 screws provided. Push assembly into the terminal tube, make sure œ about 3/4" (20mm) past the lugs. Bend ties so they Pull hard on left and right hand side ties, clip ties over lugs inside sleeve. You should be able to pull ties 2 or are parallel with the wall. 3 slots past the starting point. Cut the ties, leaving .7 "LEFT" (from inside). mark at the top. Left hand side fixing tie is marked From outside, insert terminal into sleeve with the "A" S \*For weather board walls, add spare rubber seal provided to compensate for weather board angle. Manifold can still be turned after attaching. Insert Inner Connection Assembly. Attached Ties Installation of Terminal Check rubber seal is in place on terminal. Fixing tie Pull hard nlet Fixing tie Inner Connections Cut (leave 20mm free) Terminal seal (Add "weather board"-seal here) 20. Outle Eng Top Mark Sleeve Rubber cap Terminal Terminal TOP" mark "A"

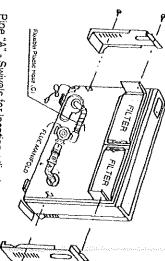
Fix Flue Adapter to Flue as shown below. Manifold with PIPE STOPPER S



'n Fit Wall bracket as shown below.



ω Back Spacers with screws. Fit Air inlet Hose to heater. Fix Side



Pipe "A" - Swivels for location adjustment
Pipe "B" - Telescopic-telescopes into pipe A and flue manifold
Pipe "C" - Fits on manifold "Air Intake" pipe

Air Inlet Hose

Connect Air Inlet Hose to Manifold

Do not kink the hose

Secure with plastic tie as shown below Plastic tie

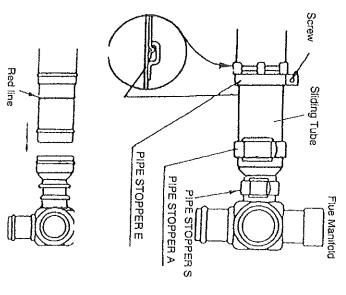
Inlet hose

Inlet elbo

one. When servicing unit replace plastic tie with new

local distributor.) (Available at local hardware store or contact

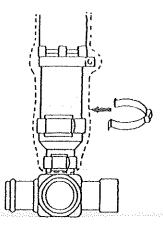
Ċ Connect Vent Sliding Tube with PIPE STOPPER S and E as shown below.



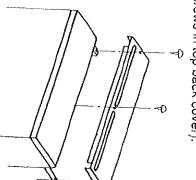
Sliding Tube should not be extended beyond the RED LINE.

tube back into the vent outlet. Red line should not be visible after sliding the

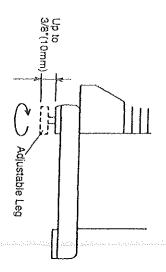
Slide the insulation sleeve up to the flue manifold, slip the securing clip over the sleeve as shown.



Fix Back Spacer, Top to heater.(3 screws in top back cover).



 If necessary, the unit can be levelled using the adjustable legs under the front right and left hand side legs.



# INSTRUCT CUSTOMER ON USE OF HEATER

When you are satisfied that the appliance is operating correctly, explain operation of heater to the customer.

Fault-Failure Procedure

If unable to get the heater to operate correctly, contact Rinnal directly or your Agent or Gas Utility.

Do not use electrical extension cords to connect unit to power supply. Keep the power cord away from the flue.

Some items are not covered under the unit's warranty. Example: annual maintenance, carbon on flame rods/igniter, dust, spider webs, improper conversions, etc.