

PERMIT ISSUED

City of Portland, Maine - Building or Use Permit Application
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 03-0511	Issue Date: MAY 19 2003	CBL: 339 C015001
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Location of Construction: 30 Dayton St	Owner Name: Shannon Charles J Jr &	Owner Address: 30 Dayton St CITY OF PORTLAND	Phone:
Business Name:	Contractor Name: Maingas	Contractor Address: P.O. Box 1020 Windham	Phone: 2078926744
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R3

Past Use: Single Family	Proposed Use: Single Family	Permit Fee: \$30.00	Cost of Work: \$30.00	CEO District: 1
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type: Gas Appliance 100 Tank	

Proposed Project Description: Install Gas/ Direct Vent Heating System w/100 Gallon Tank	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i> 5/19/03
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature: _____ Date: _____		

Permit Taken By: gad	Date Applied For: 05/14/2003	Zoning Approval
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>[Signature]</i> 5/15/03	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
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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

03-0511

PERMIT ISSUED

MAY 19 2003

CITY OF PORTLAND

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

339 C015

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location 38 Dayton St. Use of Building Residential Date 5/12/03

Name and address of owner of appliance Charles + Jan Shannon

Installer's name and address Mauingas P.O. Box 1020
Windham, Maine 04062 Telephone 892-6744

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Rinnai, space heater

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 689
- Other _____

Type of Chimney:

Masonry Lined
Factory built _____

Metal
Factory Built U.L. Listing # _____

Direct Vent
Type Rinnai UL# _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank 100 gal.

Number of Tanks 1

Distance from Tank to Center of Flame _____ feet.

30.00

Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: _____

See attached letter or requirement

Signature of Installer Stan Crocker, Dale Grysbwicz (like Rep)



**HOME OWNER / INSTALLER
FOR YOUR SAFETY
THIS MANUAL MUST BE READ IN ITS
ENTIRETY BEFORE OPERATING HEATER**

RHFE-556FA III / FTRA III

ENERGYSAVER

GAS DIRECT VENT WALL FURNACE

Owner's Operation and Installation Manual



WARNING: IF THE INFORMATION IN THIS MANUAL 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: MUST LEAVE MANUAL WITH UNIT AFTER INSTALLATION.
OWNER: RETAIN THIS MANUAL SAFELY, FOR FUTURE REFERENCE.**

Rinnai

SPECIFICATIONS

MODEL #	BTU/h		MIN. CLEARANCES			FAN CFM OUTPUT
	INPUT	OUTPUT	SIDE	TOP	FRONT	
RHFE-556FA III /FTRA III	Low 8,200	Low 6,640	2" (50mm)	12" (300mm)	40" (1m)	LO:110.5
NATURAL	High 21,500	High 17,420				HI:162.7
RHFE-556FA III /FTRA III	Low 8,200	Low 6,640	2" (50mm)	12" (300mm)	40" (1m)	LO:110.5
PROPANE	High 20,700	High 16,770				HI:162.7

SPECIFICATIONS

Type of Appliance	Fan forced flued gas furnace
Model	RHFE-556FA III/FTRA III ENERGY SAVER
Dimensions	Width— (750mm) 29 1/2" Depth—(250mm with back spacer)9 13/16" (with back spacer) Height—(554mm) 21 13/16"
Weight	Approx. 51 lbs.
Connections	Electrical—AC 120V 60Hz 52 watts Gas—1/2" female NPT
Combustion System	Stainless steel bunsen burner
Ignition System	Continuous spark
Operation	Finger touch control buttons (non-lock)
Temperature Control	Electronic thermostat HI-LOW/OFF Up/down switch
Temperature Range	Modulates Continuous LOW=55°F 60°F~80°F HI=High Combustion
Warm Air Outlet	Bottom front louver
Indicators/Lamps	Burner ON, child lock, filter, economy, temperature display, Timers(FTRA III Only)
Operating Buttons	On, Up/down, child-lock, economy/Timers, Override (FTRA III Only)
Economy Mode	Energy saving feature
Humidifier Tray	Capacity—3 pints (1300cc)

Safety Devices	Flame failure – Flame rod Over heat – Bi-metal switch, thermal fuse, thermistor Power failure – PCB Power surge – 3 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	
Noise Level Range	HI~LOW=41~32dB(A)	
TYPE	Combustion Method	Forced combustion
	Air Supply Exhaust	Closed Type
	Radiation Method	Forced convection
AIR SUPPLY/ EXHAUST PIPE	Wall Penetration Hole	(80mm) 3 1/8"
	Max. Extended Length	(4m, 2 bends)=13ft., 2 bends

SPECIFICATIONS FOR VENT SIZES		
S	3"—4 1/2" (75—115)mm	Thin Walls Mobile Home
A	4 1/2"—9 1/2" (115—240)mm	Wood Walls
B	9 1/2"—15 3/4" (240—400)mm	Wood/Brick
C	15 3/4"—23 5/8" (400—600)mm	Brick/Block
D	23 5/8"—31 1/2" (600—800)mm	Special

** BTU - Efficiency increases with vent Extension. Clearances from combustibles see pages 6 and 28.

** Thermal efficiency rating determined under continuous operating conditions.

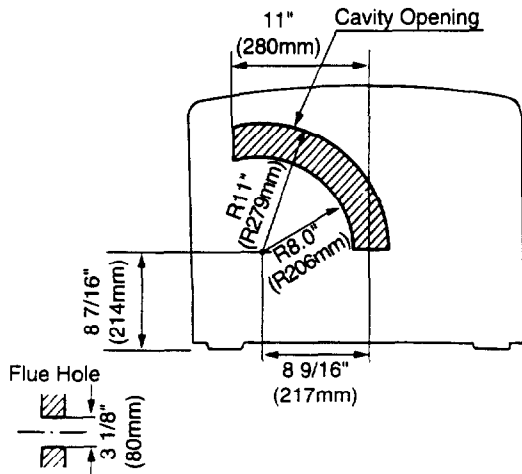
Efficiency results based on DOE regulations. Output efficiency is 75% of rated input for Canadian installations.

VENT LOCATION

FLUE MANIFOLD POSITION

Center of hole for flue manifold can be drilled anywhere within the shaded area. (To avoid studs, etc.)

FOR WEATHERBOARD WALLS DRILL THROUGH CENTER OF WEATHER BOARD FROM OUTSIDE, THEN DRILL FROM INSIDE THROUGH PLASTERBOARD.



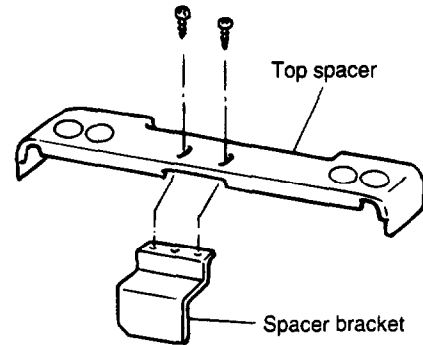
Before drilling the flue hole, check for water and gas pipes as well as electric cables. Use a 3 1/8" (80mm) drill for hole through wall.

WALL MOUNTING BRACKETS

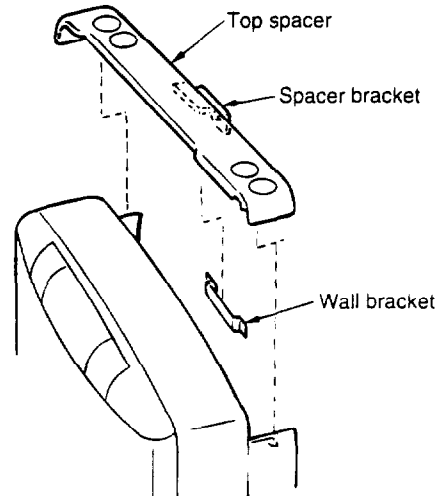
Place top back spacer in position. Mark the position of the top edge of the top spacer on the wall. Move the heater away from the wall. Mark center lines 1 1/8" (30mm) down from the top edge mark, and 1 9/16" (40mm) in front the left and right hand sides of the top spacer. Attach wall brackets at the marked position.

FITTING TOP SPACER + WALL CLIP

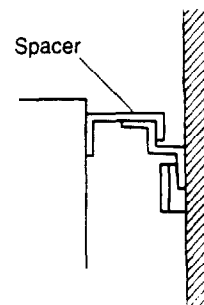
Tighten all screws.



SECURE HEATER TO WALL



Replace top spacer, clipping the spacer into the wall brackets at the same time as attaching it to the heater. Secure top spacer with the screws provided. THE HEATER IS NOW SECURED TO THE WALL.



Replace fan filter.
OPTIONAL FLOOR BRACKETS ARE AVAILABLE FOR COMMERCIAL INSTALLATIONS.

CANADIAN VENT REGULATIONS

CAN/CGA-B149.1-M91

A vent shall not terminate:

- (a) Directly above a paved sidewalk or paved driveway which is located between two singlefamily dwellings and serves both dwellings;
- (b) less than 7 ft. (2.13m) above a paved sidewalk or a paved driveway located on public property;
- (c) within 6 ft. (1.8m) of a mechanical air supply inlet to any building;
- (d) above a meter/regulator assembly within 3 ft. (900mm) horizontally of the vertical centerline of the regulator;
- (e) within 6 ft. (1.8m) of any gas service regulator vent outlet;
- (f) less than 1 ft. (300mm) above grade level;
- (g) within the following distances of a window or door which can be opened in any building, any non-mechanical air supply inlet to any building or the combustion air inlet of any other appliance;
 - (i) 1 ft (300mm) for inputs up to and including 100,000 Btuh (30kW),
 - (ii) 3 ft (900mm) for inputs exceeding 100,000 Btuh (30kW); and
- (h) underneath a veranda, porch or deck, unless
 - (i) the veranda, porch or deck is fully open on a minimum of two sides beneath the floor, and
 - (ii) 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 Z223-1-1992 U.S.A.

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

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

Vent terminal must be kept clear of snow at all times.

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

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