

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that DALEM DARLING

Located At 100 HARRIS AVE

Job ID: 2011-09-2332-HVAC

CBL: 339- A-025-001

has permission to Install Rinnai Heater

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 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**

SCANNED

## BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: [buildinginspections@portlandmaine.gov](mailto: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: 2011-09-2332-HVAC	Date Applied: 9/28/2011	CBL: 339- A-025-001	
Location of Construction: 100 HARRIS AVE	Owner Name: DALE M DARLING	Owner Address: 100 HARRIS AVE PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: Giroux Energy	Contractor Address: 343 Warren Ave., Portland, ME	Phone: 797-7111
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-3
Past Use:  Single family	Proposed Use:  Same: Single Family - To install Rinnai heater	Cost of Work: \$13,000.00	CEO District:
		Fire Dept:  Approved Denied N/A	Inspection: Use Group: HVAC Type: R-3
Proposed Project Description:		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Gayle		<b>Zoning Approval</b>	

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan  Date: <u>OK</u> <u>9/29/11</u>	<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  Date:	<input checked="" type="checkbox"/> Not in Dist 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:

**CERTIFICATION**

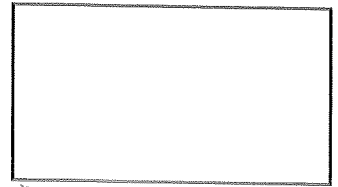
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, 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



2011 09 23 2 R-3

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 / CBL 339A025 Use of Building Residential Date 9/28/11

Name and address of owner of appliance DALE DARLING 100 Harris

Installer's name and address Groov Energy 343 WARREN AVE Portland

Telephone 797 7111

### Location of appliance:

- Basement
- Floor
- Attic
- Roof

### Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Rinnai E110 combi

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 7618
- Other \_\_\_\_\_

### Type of Chimney:

- Masonry Lined  
Factory built \_\_\_\_\_
- Metal  
Factory Built U.L. Listing # \_\_\_\_\_
- Direct Vent  
Type PVC UL# \_\_\_\_\_

RECEIVED

SEP 28 2011

Dept. of Building Inspections  
City of Portland Maine

### Type of Fuel Tank

- Oil
- Gas Propane

Size of Tank 120

Number of Tanks 1

Distance from Tank to Center of Flame 30' feet.

Cost of Work: \$ 12,831.80

Permit Fee: \$ 150 -

Approved

Approved with Conditions

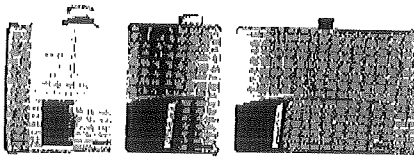
Fire: \_\_\_\_\_  
Ele.: \_\_\_\_\_  
Bldg.: \_\_\_\_\_

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer [Signature]



797-7466

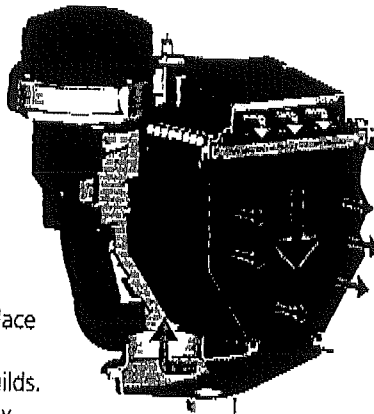
# Rinnai

## INTRODUCING RINNAI CONDENSING TECHNOLOGY FOR HEATING YOUR WHOLE HOUSE - AND YOUR WATER

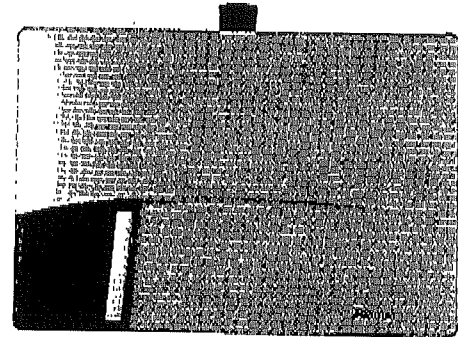
RINNAI CONDENSING WALL-MOUNTED GAS BOILERS FOR WHOLE-HOUSE HEATING AND HOT WATER

**Optimum comfort.  
Minimum heating costs.**

Heat an entire home – even get domestic hot water – with the economical, reliable and compact choice from Rinnai. Now, the premier name in tankless water heating brings you two series of wall-mounted, condensing gas boilers that can be easily retrofitted to replace traditional, less efficient boilers or provide simple, space-saving installation in new builds. All seven models feature Rinnai's exclusively designed stainless steel heat exchanger to deliver unparalleled performance and efficiency.



Q Series 175C



**Choose from two lines, designed to fit your application.**

Rinnai offers more efficiency, more energy cost savings and more durability. Choose from the Rinnai E Series, perfect for homes with small domestic hot water needs, or the Q Series, ideal in all homes where more sophisticated demands call for zone heating. Four heating-only models and three combi models offer maximum BTU inputs ranging from 75,000 to 205,000 and operate on either natural or LP gas.

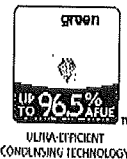
### Rinnai E Series

- Two compact combi models for heating and domestic hot water
- Stainless steel boiler heat exchanger for domestic hot water
- Copper nickel integrated plate heat exchanger for domestic hot water
- Integrated single-speed pump and expansion tank
- A variety of venting options

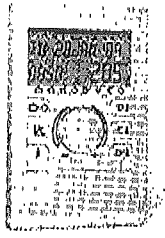
### Rinnai Q Series

- Fully modulating pump combines with stainless steel heat exchanger to make this one of the more efficient units available
- Combi unit includes 6.6 gallon fully insulated indirect tank
- Optional 3-way diverter valve (indirect DHW tank kit) available for "S" System models

- Up to 96.5% AFUE efficiency
- Stainless steel primary boiler heat exchanger
- Copper nickel integrated secondary plate exchanger
- Compact wall-mounted design saves space over traditional boilers
- Super quiet operation
- Optional internal 3-way valve eliminates the need for a pump for the indirect tank
- Outdoor reset function with sensor included
- Plumbing kits with low-loss header included
- Choose between propane or natural gas units (conversion kits available)
- Variety of venting options available with direct vent ready out-of-the-box; dual-pipe adaptor included
- ASME accredited units
- ENERGY STAR qualified models



# RINNAI CONDENSING WALL-MOUNTED GAS BOILERS

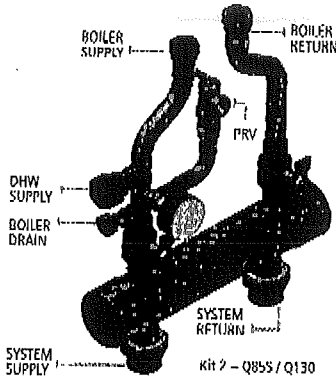


RS100

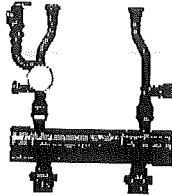
## RS100 Controller

- Simple digital controller with backlit display
- Direct communication with boiler
- Adaptive room control
- Error reporting and auto service message
- Automatic summer/winter time change
- Local override of the room temperature
- Flow temperature control
- Features three clock programs and three week profile programs; programmable for holidays

## Plumbing Kits - Kits for other models are available.



Kit 2 - Q85S / Q130

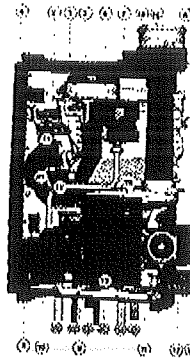


Kit 1 - E75C / E110C

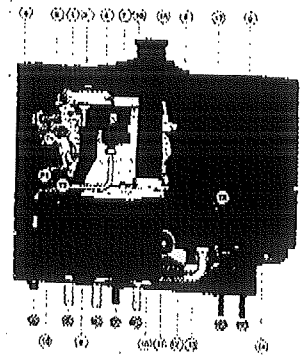


Kit 3 - Q175 / Q205

E Series



Q Series



## Condensing Gas Boilers - Parts

LETTER	SHARED COMPONENTS	Q SERIES
8	plate exchanger DHW	8 cylinder DHW (combi)
14	exhaust	10 Control Tower (CMS)
15	combustion air supply	14 thermostatic mixing valve
16	Brazed plate heat exchanger	15 exhaust
T1	supply sensor	16 combustion air supply
T3	sensor DHW and flow switch	17 air box
A	supply connection central heating	18 identification plate
R	return connection central heating	T1 flow sensor
C	condensate pipe	T3 cylinder sensor DHW (combi)
K	domestic cold water pipe	F supply connection central heating
W	domestic hot water pipe	R return connection central heating
		T2 return sensor
		C condensate pipe
		E expansion vessel pipe (Q51C)
		K domestic water pipe (combi)
		W domestic hot water pipe (combi)

## Rinnai Condensing Wall-Mounted Gas Boilers - "C" Combi and "S" System

Dimensions	W 20" (500 mm) H 26" (650 mm)* D 16" (395 mm)	W 20" (500 mm) H 26" (650 mm)* D 16" (395 mm)	W 20" (500 mm) H 27" (680 mm) D 15" (385 mm)	W 20" (500 mm) H 27" (680 mm) D 15" (385 mm)	W 26" (660 mm) H 27" (680 mm) D 15" (385 mm)	W 40" (1000 mm) H 27" (680 mm) D 15" (385 mm)	W 26" (660 mm) H 27" (680 mm) D 15" (385 mm)
Weight	86 lbs (39 kg)	88 lbs (40 kg)	110 lbs (50 kg)	117 lbs (53 kg)	141 lbs (64 kg)	196 lbs (89 kg)	141 lbs (64 kg)
Minimum/Maximum Input BTU (Heating)	17,000-75,000 (NG) 37,000-75,000 (LP)	26,000-110,000 (NG) 59,000-110,000 (LP)	17,000-85,000 (NG) 37,000-85,000 (LP)	26,000-130,000 (NG) 59,000-130,000 (LP)	35,000-175,000 (NG) 74,000-175,000 (LP)	35,000-175,000 (NG) 74,000-175,000 (LP)	41,000-205,000 (NG) 74,000-205,000 (LP)
Minimum/Maximum Input BTU (Direct Hot Water)	17,000-85,000 (NG) 37,000-85,000 (LP)	26,000-130,000 (NG) 59,000-130,000 (LP)					
Maximum Flow Rate Domestic Hot Water	2.1 GPM (75° F Delta T)	4.6 GPM (50° F Delta T)	Indirect tank compatible	Indirect tank compatible	Indirect tank compatible	6.2 GPM (50° F Delta T)	Indirect tank compatible
AJUC Rating (NG and LP)	96.5%	96.1%	96.5%	96.1%	95.7%	95.7%	95.7%
Optional Digital Controller (s)	RS100	RS100	RS100	RS100	RS100	RS100	RS100

\*Includes expansion tank

Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to and upon installation.

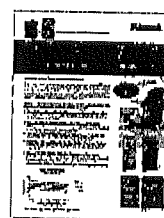
## FOR MORE INFORMATION ON RINNAI PRODUCTS

## ADDITIONAL RINNAI LITERATURE AVAILABLE

RESIDENTIAL TANKLESS WATER HEATERS



HYDRONIC FURNACES



DIRECT VENT WALL FURNACES



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# Rinnai



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