

## DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND BUILDING PERMIT



This is to certify that \_\_\_\_\_\_ Richard & Nola Urban

Located At 35 RIVERVIEW ST

Job ID: <u>2012-08-4793-HVAC</u>

CBL: 223- C-008-001

has permission to Install gas heating sysytem

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

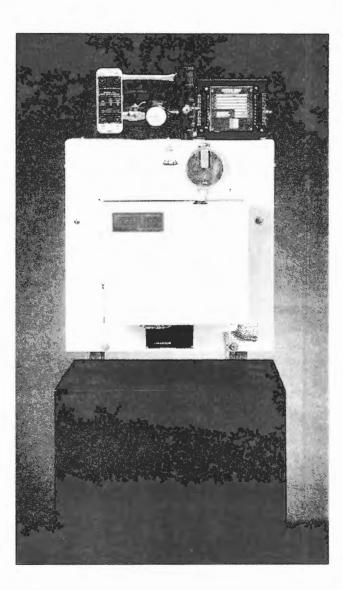
389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No: 2012-08-4793-HVAC	Date Applied: 8/23/2012		CBL: 223- C-008-001			
Location of Construction: 35 RIVERVIEW ST	Owner Name: RICHARD & NOLA UR	RBAN	Owner Address: 35 RIVERVIEW S PORTLAND, ME O			Phone:
Business Name:	Contractor Name: Charlie Burnham H	eating	Contractor Addr PO Box 382, Fr	ess: eeport, ME 04032		Phone: 865-3010
Lessee/Buyer's Name:	Phone:		Permit Type: HVAC			Zone: R-3
Past Use:       Proposed Use:         Single Family Dwelling       Same: Single Family to install gas System heating system					CEO District: Inspection: Use Group: A.3 Type: 53 HVAC Signature:	
Proposed Project Description install gas sysytem 2000 in baseme			Pedestrian Activ	ities District (P.A.D.)		5
Permit Taken By: Gayle				Zoning Approva	1	
<ol> <li>This permit application d Applicant(s) from meetin Federal Rules.</li> <li>Building Permits do not i septic or electrial work.</li> <li>Building permits are void within six (6) months of t False informatin may inv permit and stop all work.</li> </ol>	include plumbing, include plumbing, if work is not started the date of issuance. alidate a building	Special Zo Shorelan Wetlands Flood Zo Subdivis Site Plan Maj Date: OK	s one ion	Zoning Appeal Uariance Miscellaneous Conditional Use Interpretation Approved Denied Date:	Does not I Requires I Approved	et or Landmark Require Review Review

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 O	OF WORK, TITLE	DATE	PHONE

FILL IN AND	SIGN WITH INK
	N FOR PERMIT
To the INSPECTOR OF BUILDINGS, PORTLAND, ME. The undersigned hereby applies for a permit to inst accordance with the Laws of Maine, the Building Code of the Location / CBL <u>35 fiverview</u> Str 1232 Name and address of owner of appliance Alla Urban 60 fiverview Installer's name and address <u>Charlie Burnham</u> He ME, 04032	Use of Building Date @-23-12
Location of appliance: Basement	Type of Chimney: Masonry Lined Factory built
Type of Fuel:       Image: System Image: Syste	<ul> <li>Metal Factory Built U.L. Listing #</li></ul>
The Type of License of Installer:         Image: Master Plumber #         Image: Solid Fuel #         Image: Oil #         Image: Gas #         Image: Other         Image: Other	Number of Tanks         Distance from Tank to Center of Flame         Cost of Work:       §450.90         Permit Fee:       §450.90
Approved           Fire:	Approved with Conditions         Image: See attached letter or requirement         Inspector's Signature         Date Approved
Signature of Installer	Pink - Applicant's Gold - Assessor's Copy



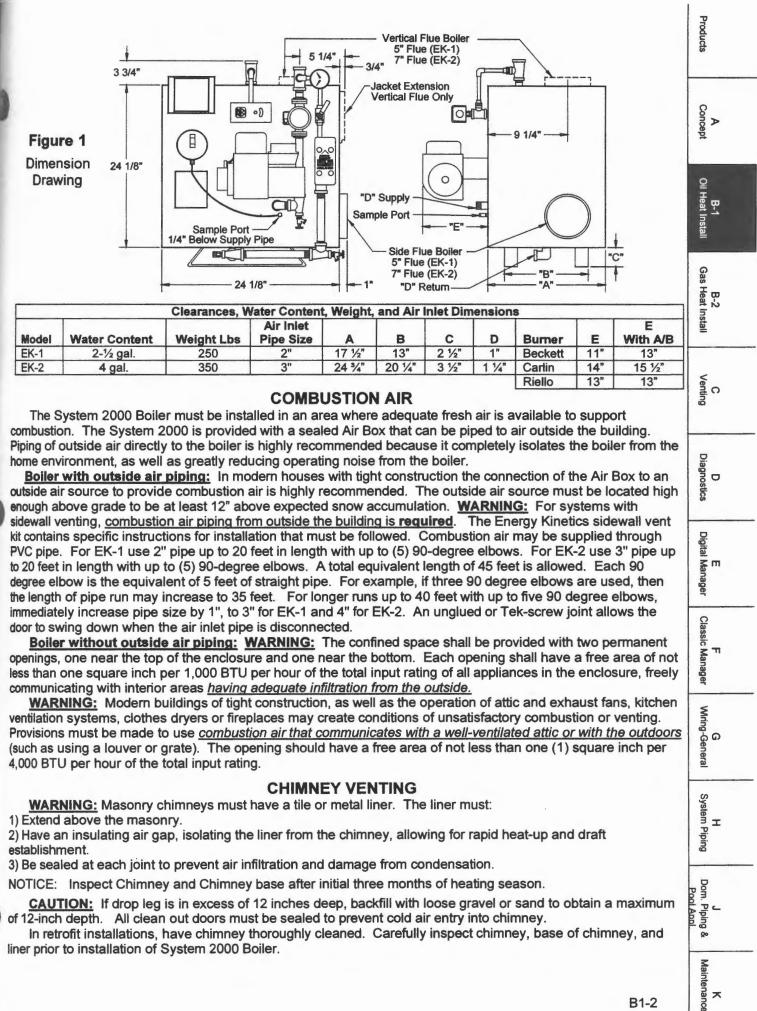
# **SECTION "B-2"** GAS HEAT SERVICE

1. RIELLO GAS

- 2. CARLIN E-Z GAS
- 3. GAS PIPING
  - A) SIZING
  - **B) LEAK TESTING**

C) FLOW TESTING 4. GAS PROTECTION PACKAGE

Products A B-1 Oil Heat Instal! B-2 Gas Heat I Instal C D Diagnostics E Digital Manager F Classic Manager G Wiring-General H System Piping Dom. Piping & Pool Appl. Maintenance ×



B1-2

## **FRONTIER BOILER** Instructions, Service Version Oilheat Edition

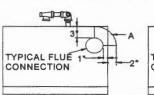
## LOCATION and CLEARANCE

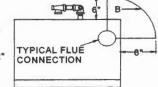
DANGER: Provide clearance to combustible surfaces in accordance with all local and national codes. Follow National Fire Protection Association Bulletin NFPA Installation of Oil Burning Equipment and all applicable codes.

Installation Clearances from Boiler Surfaces	Clearance to Combustibles	Clearance for Service
FRONT	15-1/2"	20"
LEFT SIDE	0"	0"
RIGHT SIDE	0"	0"
BACK	4"	4"
TOP	16"	16"
BOTTOM OF LEGS	0"	16"*
FLUE CONNECTION (see Figure 1A)	(A) 3" L-Vent (B) 9" Std.Flue	(A) 3" L-Vent (B) 9" Std.Flue

\*Minimum recommended clearance to allow the door to fully open.

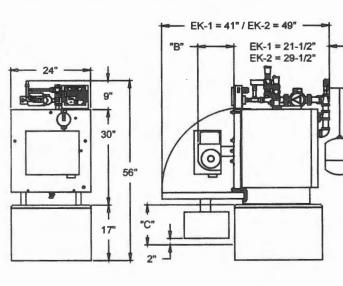
Figure 1A. Top View of Boiler -Flue Connection Clearance to Combustibles

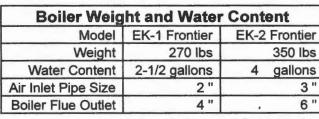


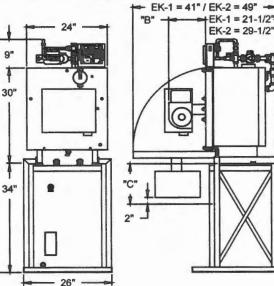


(A) L-VENT OR PELLET VENT

(B) STANDARD VENT PIPE







#### Figure 1B - Boiler Clearance for Cleaning and Service

9'

ŧ

73"

_	"'B	33 .	Open Door Leg Bottom to Floor Clearance "C"	
Burner	W/o Airbox	W/Airbox		
Beckett AFG	11-1/2"	13-1/4"	34"	
Carlin 99FRD	10-1/2"	11-1/2"	36"	
Riello 40F5	13"	N/A	35"	

A

0 B-1 Heat

Products

Gas B-2 Heat Install

C

Diagnostics D Digital E Manager

Classic Manager

T

G Wiring-General

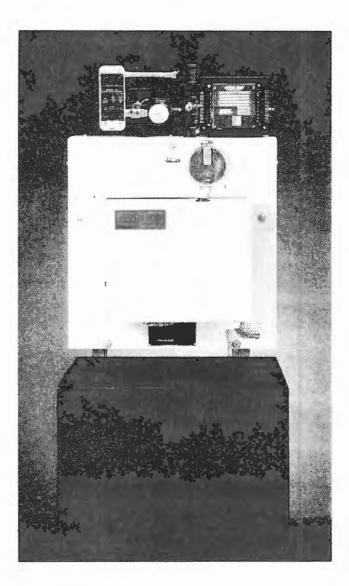
System Т Piping

J Dom. Piping & Pool Appl

Maintenance

×

B1-14



Products

A

B-1 Oil Heat Install

B-2 Gas Heat

C

D Diagnostics

E Digital Manager

F Classic Manager

G Wiring-General

H System Piping

Dom.

K

Pool Appl.

# SECTION "B-2" GAS HEAT SERVICE

RIELLO GAS
 CARLIN E-Z GAS
 GAS PIPING

 A) SIZING
 B) LEAK TESTING
 C) FLOW TESTING

 GAS PROTECTION PACKAGE

## **CARLIN EZ-GAS BURNER SETTINGS**

EK-1 Boilers are shipped from the factory preset for 120,000 Btu/Hr fining rate and EK-2 Boilers are shipped from the factory preset for 200,000 Btu/Hr fining rate. The SYSTEM 2000 Boiler can be fired over a range of firing rates to suit the needs of the application. The following table lists approximate settings for Carlin EZ-Gas burners based on extensive testing.

<u>CAUTION:</u> Final settings for each burner and firing rate for a particular installation **must** be determined by using combustion test equipment and following the instructions given under "Start Up Procedure".

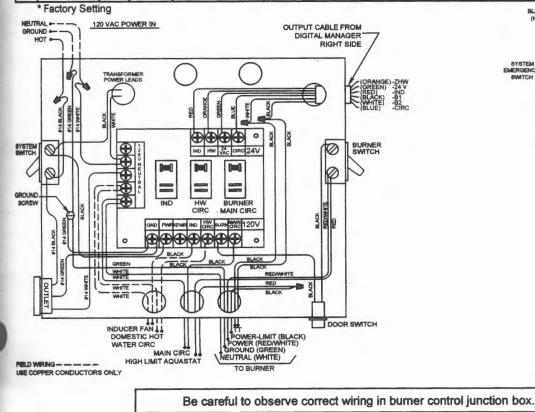
<u>CAUTION:</u> Because the energy converter removes heat from the combustion flue gas so efficiently, low firing rates may not provide high enough flue gas temperature for proper draft in a chimney. The Columns labeled 'chimney' and 'Sidewall' show the suitability of the firing rate for a particular combination.

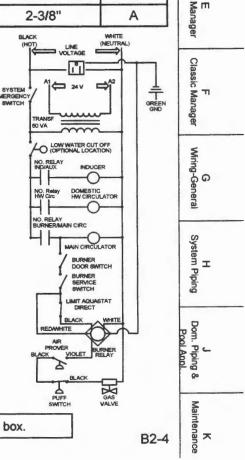
Settings are approximate. All combustion tests must be performed at steady state with burner cover installed. Take flue samples through Puff Switch opening: Natural Gas: CO2: 8.6-9.2, O2: 5.5-4.5 Propane: CO2: 9.7-10.7, O2: 6.00-4.5

CO: 200 PPM Max

Draft at Breech: Sidewall (power vent): negative 0.10" w.c. to 0.12" w.c. (Set with Damper) Chimney: negative 0.02" w.c. to -0.12" w.c.

del	Input	ney	ewall ent		Orifice		imate air	UTL - air tube		
Mod	Btu/Hr	Chimney	Sidewall		size		setting	insertion length	Diffuser	C Venting
		0		Natural Gas	Propane Gas	1 Slot	2 Slot	inches		Bu
	80,000	Ν	Y	#8 (0.199)	#25 (0.149)	25		2-3/8"	В	
1	100,000	Ν	Y	#1 (0.228)	#16 (0.177)	35		2-3/8"	В	
Ť	120,000*	Y	Y	C (0.242)	#12 (0.189)	45		2-3/8"	В	D Diagnostics
	150,000	Y	Y	J (0.277)	7/32 (0.219)	60		2-3/8"	В	ostics
	175,000	Ν	Y	N (0.302)	C (0.242)		40	2-3/8"	A	
12	200,000*	Y	Y	21/64 (0.328)	17/64 (0.266)		50	2-3/8"	A	D
EK-2	225,000	Y	Y	T (0.358)	9/32 (0.281)		60	2-3/8"	A	E Digital Manag
	250,000	Y	N	X (0.397)	5/16 (0.312)		70	2-3/8"	A	Aanag





Products

Concept

0

Install

Gas

B-2 Heat

Heat



Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Receipts Details:

Tender Information: Check, BusinessName: Charlie Burnham, Check Number: 8211 Tender Amount: 120.00

Receipt Header:

Cashier Id: gguertin Receipt Date: 8/23/2012 Receipt Number: 47463

Receipt Details:

Referance ID:	7776	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	120.00	Charge Amount:	120.00
Job ID: Job ID: 2012	2-08-4793-HVAC - install gas sysytem 200	00 in basement	
Additional Comm	ents: 35 riverview St. Charlie Burnhar	n	

Thank You for your Payment!