DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



TY OF PORTLAN NG PE



This is to certify that

DONALCO INC /Alex Lehmann

Located at

31 RANDALL ST

PERMIT ID: 2013-00347

CBL: 166 B012001

has permission to Install a Biasi Riva Boiler

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 clsoed-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 procured prior to occupancy.

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY THERE IS A PENALTY FOR REMOVING THIS CARD

Located at: 31 RANDALL ST CBL: 166 B012001 PERMIT ID: 2013-00347

City of Portland, Maine - B	Building or Use	Permit Applicat	tion	rermit No:	Issue Date:	CBL:
389 Congress Street, 04101 Te	el: (207) 874-8703	3, Fax: (207) 874-8	716	2013-00347		166 B012001
Location of Construction:	Owner Name:		Owne	r Address:		Phone:
31 RANDALL ST	DONALCO II	NC		MAIN ST SOU' 04106	TH PORTLAN	ID,
Business Name:	Contractor Name	Contractor Name:		Contractor Address:		Phone
Alex Lehmann		132 Beach Street Saco ME 04072		(207) 615-1451		
Lessee/Buyer's Name	Phone:		Permi HV	t Type: AC		Zone: R5
Past Use:	Proposed Use:	/ /	Perm	it Fee:	Cost of Work:	CEO District:
Single Family Home (200)	Single Family	Home (New)		\$70.00	\$5,00	
Proposed Project Description:			FIKE	DEPT:		SPECTION: e Group: //- 3 Type: /// State Gas Re
Install a Biasi Riva Boiler			Signa	ture/	Sig	nature:
			PEDE	STRIAN ACTIVIT	IES DISTRICT (P.A.D.)
			A	ction: Approv	ed Approve	d w/Conditions Denied
			Si	gnature:		Date:
	te Applied For: 2/20/2013			Zoning	Approval	
1. This permit application does	not preclude the	Special Zone or R	eviews	Zonin	g Appeal	Historic Preservation
Applicant(s) from meeting ap Federal Rules.		Shoreland		☐ Variance		Not in District or Landmark
Building permits do not incluseptic or electrical work.	de plumbing,	Wetland		Miscellar	neous	Does Not Require Review
3. Building permits are void if work is not started within six (6) months of the date of issuance.		☐ Flood Zone		Condition	nal Use	Requires Review
False information may invalid permit and stop all work	date a building	Subdivision		Interpreta	ation	Approved
		Site Plan		_ Approved	1	Approved w/Conditions
		Maj Minor M	M	Denied		☐ Denied
		Date: 2/2/	13	Date:		Date:
I hereby certify that I am the owne that I have been authorized by the this jurisdiction. In addition, if a prepresentative shall have the authocode(s) applicable to such permit.	owner to make this ermit for work desc	application as his au	at the pathorization is	proposed work is ed agent and I ag issued, I certify t	gree to conform	to all applicable laws of fficial's authorized

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

				1
				н
- 1				ı
- 1				1
1				1
	l			1
				1
				ł
				1
- 1				1
				ı
- 1				1

	166312
To the INSPECTOR OF BUILDINGS, PORTLAND, ME.	16000
The undersigned hereby applies for a permit to insta	all the following heating, cooking or power equipment in
accordance with the Laws of Maine, the Building Code, of the	ne City of Portland, and the following specifications:
ap 111 ct 12 H1	Q 1 / 1 200.12
Location/CBL 29 Rankell St 198thy	Use of Building Nesidenhal Date 2-20-13
Name and address of owner of appliance /e de //e d	ers
Installer's name and address Hex Celingna	132 Beach St Saw MIG
	Telephone 207 615-1451
Location of appliance:	Type of Chimney:
Basement	
☐ Attic ☐ Roof	Factory built Direct Pent
4	Tuctory built
Type of Fuel:	☐ Metal
D 03 D 0414	Factory Built U.L. Listing #
0 108,000	TU, Factory Built O.L. Listing #
Appliance Name: 13/95/11.Va	The State Visit I
	Direct Vent Type Boler Key Kliff#
U.L. Approved Yes No	Type
Will continue he installed in accordance with the manufacture's	m 47 17 1
Will appliance be installed in accordance with the manufacture's	Type of Fuel Tank
installation instructions? Tyes No	Oil RECEIVED
	FEB 2 0 2013
IF NO Explain:	EEB 50 500
	Size of Tank Dept. of Building Inspections
	Dept. of Building Inspector City of Portland Maine
The Type of License of Installer:	Number of Tanks
☐ Master Plumber #	
□ Solid Fuel #	Distance from Tank to Center of Flame feet.
□ Oil #	=
Q-Gas # PNT 1210	Cost of Work: \$ 5,000,
Other	Permit Fee: \$
	Termit rec.
Å managed A	Annuared with Conditions
Approved	Approved with Conditions
Fire:	☐ See attached letter or requirement
Ele.:	
Bldg.:	Inspector's Signature Date Approved
	inspector's Signature Date Approved
Signature of Installer Alone	
White Leasting Valley, File Di	ale Applicant's Gold Accessor's Conv.

Riva

Dept. of Building Inspections

FEB 2 0 2013

WALL HUNG GAS BOILER FOR CENTRAL HEATING SUPPLY

Please Read Instructions Carefully Save for Future Reference

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 electric 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 can not reach your gas supplier call the fire department.
- Installation and service must be performed by a qualified installer. service agency or the gas supplier.





Distributed By:

Quincy Hydronic Technologies, Inc. 80 Rochester AVE. Suite # 12 Portsmouth, NH 03801 Phone: 603-334-6400

Fax: 603-334-6401

RIVA FP MANUAL

6. Installation Location

The installation location chosen must:

- · Comply with all clearances listed below.
- · Provide suitable location for the exhaust and intake venting.
- · Not be installed in an unheated space.
- · Comply with all local codes and standards.

Note: Dimensions shown are minimums. Greater clearances will simplify installation and service.

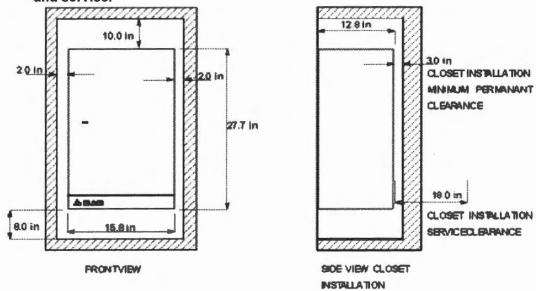


Figure 6.1

WARNING: Do not install the boiler on carpeting

If the boiler is to be installed in an enclosed room with no fresh air intake, the room must have proper vent louvers installed. There should be two louvers, place each within 12" of the ceiling and floor respectively. Each vent will have a free area of 54 square inches.

Note: For boilers in an enclosed space it is recommended to install a CO detector in the boiler room.



Figure 6.2

When choosing an installation location insure the exhaust and intake pipes comply with NFPA 54. The drawing on the next page illustrates the restrictions on exhaust locations.

14 RIVA FP MANUAL

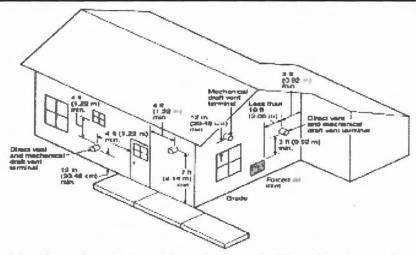
7. Exhaust Pipe Location

CAUTION

EXTERNAL VENT SURFACES ARE HOT.

IT IS RESPONSABILITY OF THE HOMEOWNER TO KEEP THE VENT TERMINAL CLEAR OF SNOW AND ICE

NOTE: USE ONLY LISTED COMPONENTS SUPPLIED WITH THE BOILER. SURFACE DISCOLORATION OF THE BUILDING MAY OCCUR DUE TO IMPROPER INSTALLATION. QHT WILL NOT ACCEPT RESPONSIBILITY OR LIABILITY FOR SUCH DISCOLORATION.



The Exhaust Hood must be installed on the leeward side of house and conform to the following guidelines:

- 1. The Vent hood shall not be less than 3 feet above any forced air inlet to the house.
- 2. The Vent hood shall not be less than 4 feet below, 4 feet horizontally, or 1 foot above any door, window or gravity inlet into any building.
- 3. The Vent hood shall not be less than 2 feet from an adjacent building.
- 4. The Vent hood shall be not less than 7 feet above grade when located adjacent to public walkway.
- The Vent hood shall be located so that flue gasses are not directed to jeopardize people, overheat combustible structures, materials or enter buildings.
- 6. Minimum of 6 feet horizontal clearance from electric meters, gas meters, regulators and relief equipment.
- Avoid installing exhaust hood on the North, West, or the side of the house receiving the prevailing winds
- The vent should not be situated so that the flue gases are directed towards brickwork, siding, or other construction, in such a manner that may cause damage from heat or condensate from the flue gases

RIVA FP MANUAL

8. Mounting Bracket

After a suitable installation location is chosen, verify that the mounting wall is properly braced and strong enough to support the 80 pound weight of the unit when filled with water.

NOTE: The boiler shall be installed such that the gas ignition system components are protected from water and liquids in general (dripping,spraying, rain, etc) during the appliance operation and service.

Use the paper template provided with the boiler to determine the location of the mounting bracket. Securely mount the bracket to the wall using appropriate hardware for the particular wall construction.

Mounting Steps:

- 1. Tape the paper template to the wall in the chosen location. Be sure to level the template.
- Pre-drill two holes in the center of the "oval" slots on the mounting bracket, sized for the hardware being used.
- Mount the bracket to the wall. Be sure to level the bracket by adjusting the screw in the vertical slot.
- 4. Pre-drill the remaining hole in the mounting bracket and secure the final screw.
- 5. Mark and drill the exhaust/intake pipe holes through the house. If you are using a coaxial pipe system, drill the hole marked A (Ø 4") in the drawing below and on the paper template. If you are using a separate pipe system drill holes marked B and C (Ø 3.25") shown below as well as on the paper template.
- 6. Remove paper template and hang boiler on bracket.

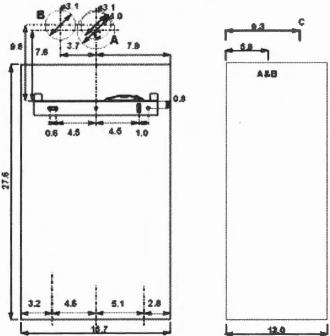


Figure 8.1

The Riva is a mechanical draft, side wall vented boiler. There are two flue options available - separate and coaxial. The coaxial option has one configuration shown on the next page. The separate option has two possible configurations shown on the following pages.

9.1 Restrictor Sizing:

Each exhaust option is shipped standard with 3 feet of exhaust pipe, 3 feet of intake air pipe. There is also a restrictor kit in which there are some restrictors that must be placed in exhaust breech of fan on the top of the boiler (Fig. 9.1) according to the flue configuration used.

If additional flue piping is need for a particular application, it can be ordered separately in 3 feet increments. Depending on the final flue pipe length, an alternative restrictor may be required. Refer to the tables 9.1 for proper restrictor ring sizing.

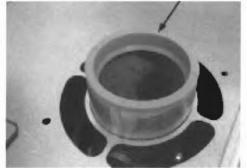


Figure 9.1

Coaxial 2.5/4.0	Restrictor Size		
From 1.65 to 3.30 (ft)	41		
From 3.30 to 8.86 (ft)	44		
Separate 3.25/3.25	Restrictor Size		
For 1.65 (in) and 1.65 (out)	38		
From 3.30 to 39.40 (in+out)	41		

Table 9.1

9.2 Fitting the flue system:

In general, it has to be taken in consideration that the horizontal sections of the flue pipe must have an horizontal sloping not less than 1.5 degree (0.3 in per ft) towards the boiler.

In the standard horizontal flue kit the flue pipe is angled within the air duct therefore the air duct must be horizontally installed.

If one or more exstensions have to be used they must be adequately supported so that there is no sag in the flue pipe and a minimum fall of 1.5 degree (0.3 in per ft) over the whole length towards the boiler is ensured.

B Standard separate horizontal flue kit (Exhaust & intake outside)

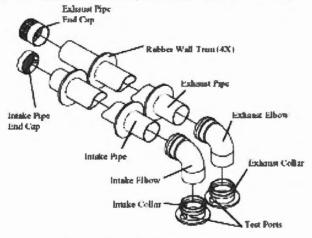


Figure 9.4 (Twin pipe φ 3.25 in)

Various twin (split) pipes kits and optional accessories (elbows) are available to assist in the termination of the flue where the boiler is installed in a location remote to an outside wall. These kits allow for separation of the air supply pipe from the pipe that discharges the exhaust gasses. Consequently it is possible to extend the flue system to a greater distance than that provided by the standard coaxial horizontal flue.

If either an additional 45° or 90° accessory elbow is used then the maximum permissible lenght of either pipe must be reduced by 3.0 ft or 5.4 ft respectively. The sum of the lenghts of the two horizontal part must be less than 131 ft.

Installation:

- Drill holes B & C (on the wall template) through the outside wall that is less than 18"thick
- Cut the pipes as necessary so that no more than 6" of intake pipe protrudes from the house and the exhaust pipe is a minimum of 4 inches longer than the intake pipe.
- · Slide the Intake and exhaust pipes through the respective holes.
- · Slide one rubber wall trim piece on each pipe from inside and one from outside.
- · Attach each collar to the boiler with the gasket and screws provided.
- · Insert each elbow into its corresponding collar.
- Connect each pipe to its corresponding elbow (as shown in the diagram).
- Secure end cap on the intake and exhaust pipe outside the house.

E Alternative separate kit (Exhaust & intake outside)

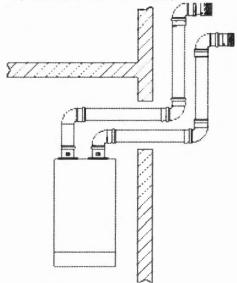


Figure 9.7 (Twin Pipe φ 3.25 in)

These kits allow for separation of the air supply pipe from the pipe that discharges the exhaust gasses. Consequently it is possible to extend the flue system to a greater distance than that provided by the standard coaxial horizontal flue.

If either an additional 45° or 90° accessory elbow is used then the maximum permissible lenght of either pipe must be reduced by 3.0 ft or 5.4 ft respectively. The sum of the lenghts of the two horizontal part must be less than 49. ft.

Installation:

- Drill holes B & C (on the wall template) through the outside wall Drill hole C (on the wall template) through the outside wall that is less than 18"thick.
- Cut the pipes as necessary so that no more than 6" of intake pipe protrudes from the house and the exhaust pipe is a minimum of 4 inches longer than the intake pipe.
- Slide the Intake and exhaust pipes through the respective holes.
- · Slide one rubber wall trim piece on each pipe from inside and one from outside.
- · Attach each collar to the boiler with the gasket and screws provided.
- · Insert each elbow into its corresponding collar.
- · Connect each pipe to its corresponding elbow (as shown in the diagram).
- · Secure end cap on the intake and exhaust pipe outside the house.

F Standard Vertical-roof kit (Exhaust & intake outside)

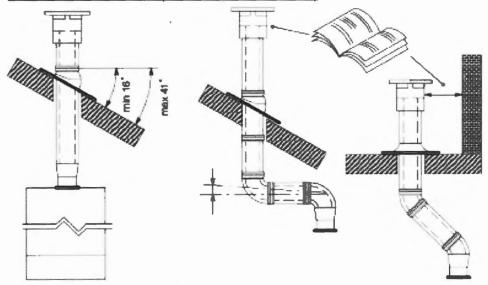


Figure 9.8 (vertical pipe φ 3.1 / φ 4.9 in)

This kit allows vertical termination of the flue pipe through the roof. The kit is 1.2 min length. Extension pieces (Co--axial) are also available which allows the flue system to be extended to a total overall maximum permissible length of 29 ft.

Optional 45° and 90° elbows can be used to offset the flue route.

Each additional elbow reduces the overall acceptable length of the flue system as follows:

45° reduce length by 1.6 ft.

90° reduce length by 3.2 ft.

Installation:

- · Drill hole through the outside roof.
- · Cut the pipe as necessary.
- · Slide the intake and exhaust pipes through the hole.
- · Slide one rubber wall trim piece on the pipe from inside and one from outside.
- · Connect exhaust (inner) pipe to concentric elbow.
- · Connect intake (outer) pipe to concentric elbow.
- · Secure elbow to boiler using gasket and four screws provided.
- · Secure end cap on the intake pipe outside the house.