#### **DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK**



# CITY OF PORTLAND BUILDING PERMIT



This is to certify that

EAST END STUDIOS LLC

ocated at

273 CONGRESS ST

PERMIT ID: 2012-49969

CBL: 021 E018001

has permission to Install Viessmann gas boiler; vent in chimney

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

### BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 (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.

#### **REQUIRED INSPECTIONS:**

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: 2012-11-5341-HVAC	Date Applied: 11/6/2012		CBL: 021- E-018-001	L		
Location of Construction: 273 CONGRESS ST	Owner Name:     Owner Address:       EAST END STUDIOS     273 CONGRESS ST       PORTLAND, - ME 04101			Phone:		
Business Name:	Contractor Name: Charlie Burnham		Contractor Addr PO BOX 382	ess: FREEPORT MAINE O	4032	Phone: (207) 865- 9010
Lessee/Buyer's Name:	Phone:		Permit Type: HVAC			Zone: B-2b
Past Use: 1 <sup>st</sup> floor retail; 2 <sup>nd</sup> floor 3 "office" spaces for the design of art pieces (or artist's studios; 3 <sup>rd</sup> floor one dwelling unit	Proposed Use: Same: 1 <sup>st</sup> floor retail; 2 <sup>nd</sup> floor 3 "office" spaces for the design of art pieces (artist's studios; 3 <sup>rd</sup> floor one dwelling unit – to install Viessmann heating system		Cost of Work: \$17,000.00 Fire Dept: 11/29/12 Approved $w/$ conditions Denied Signature: By an $0$ . 58			CEO District: Inspection: Use Group: M/B/ Type: HMAZ MUBEC OG Signature: H
Proposed Project Description Install Viessmann gas boile			Pedestrian Activ	ities District (P.A.D.)		Du/15/12
Permit Taken By: Brad		0.117	<b>D</b> 1	Zoning Approval		
<ol> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building Permits do not include plumbing, septic or electrial work.</li> <li>Building permits are void if work is not started within six (6) months of the date of issuance</li> </ol>		Shorelan Wetland: Flood Zo Subdivis Site Plan	s one ion	Zoning Appeal           Variance           Miscellaneous           Conditional Use           Interpretation           Approved           Denied   Date:	Not in Di Does not Requires	
		CERTIF	ICATION	]		

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
HEATING OR PO	I FOR PERMIT WER EQUIPMENT
10 the INSPECTOR OF BUILDINGS, FORILAND, ME.	EO18 Use of Building Date 11-5-12 udios 273 couvers Str B-7b festing Service Inc
Location of appliance: Basement Attic Kent Anarsh Floor Chimny	Type of Chimney: Masonry Lined CPUC Factory built
Type of Fuel:       Image: Gas       Oil       Solid         Appliance Name: ViesSmann       UL       Approved       Ves       No         UL. Approved       Ves       No       No         Will appliance be installed in accordance with the manufacture's installation instructions?       Yes       No         IF NO Explain:	<ul> <li>Metal Factory Built U.L. Field KED</li> <li>Direct Vent NOV 0.5 2012 Type</li></ul>
Approved Fire: Ele.: Bldg.: Signature of Installer	Approved with Conditions         Image: See attached letter or requirement         Image: Inspector's Signature         Date Approved
White - Inspection Yellow - File Pin	nk - Applicant's Gold - Assessor's Copy



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**Receipts Details:** 

Tender Information: Check , Check Number: 8221\$190.00 Tender Amount: 190.00

**Receipt Header:** 

Cashier Id: bsaucier Receipt Date: 11/6/2012 Receipt Number: 49970

**Receipt Details:** 

Referance ID:	8650	Fee Type:	BP-Constr
<b>Receipt Number:</b>	0	Payment	
		Date:	
Transaction	190.00	Charge	190.00
Amount:		Amount:	
Job ID: Job ID: 2012	-11-5341-HVAC - Install Viessmann gas bo	iler; vent in chimney	
Additional Comme	ents: 273 Congress		

Thank You for your Payment!



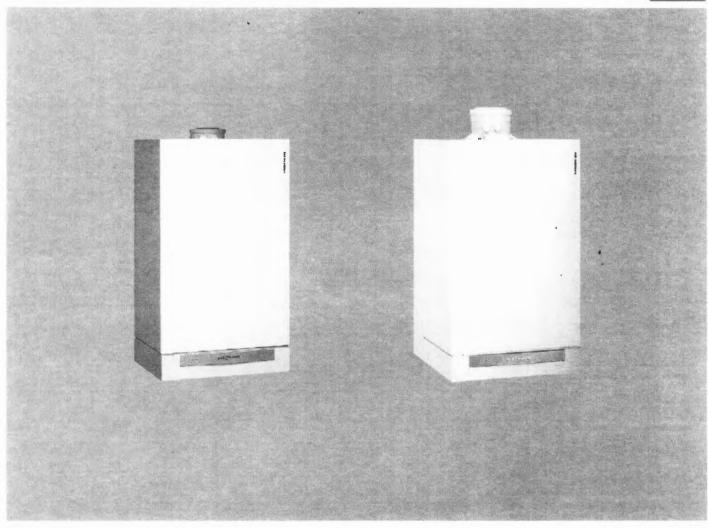
#### VITODENS 200-W

Gas-fired wall-mounted condensing boiler 31 to 370 MBH / 9 to 105 kW Multi-boiler installation 320 to 1480 MBH/

# **Technical Data Manual**

Model Nos. and pricing: see Price List





#### Vitodens 200-W

#### WB2B Series

Gas-Fired Wall-Mounted Condensing Boiler with modulating MatriX cylinder burner for room air independent operation (using a direct vent system) or room air dependent operation

For Natural Gas and Liquid Propane Gas Heating input 31 to 370 MBH for NG and LPG 9 to 105 kW

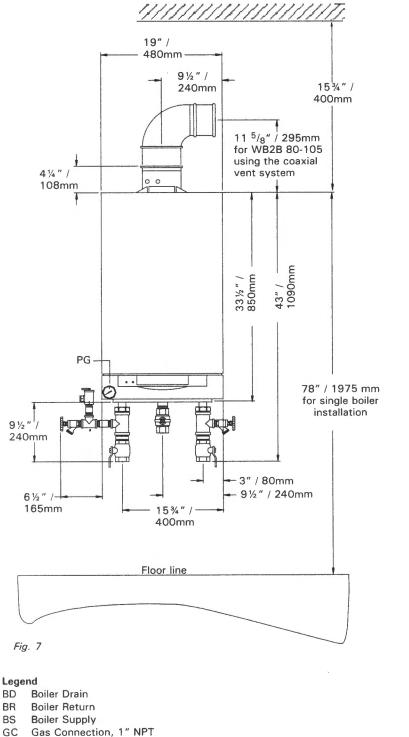


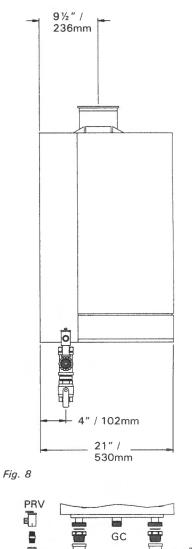


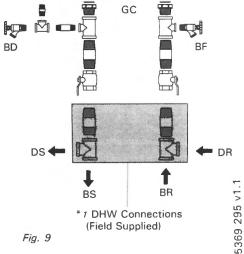
#### **Dimensional Information**

#### Models WB2B 80, 105

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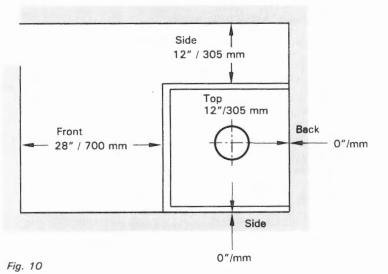


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- PRV Pressure Relief Valve
- Boiler Fill BF
- PG Pressure Gage
- Boiler heating return for domestic hot water production 1 ¼ " DR
- Boiler heating supply for domestic hot water production 1 ¼ " DS
- \* 1 See page 38 for alternate DHW connection.

#### **Recommended Minimum Service Clearances**



#### Minimum Clearances to Combustibles

				Right		Vent pipe*7
0 0 AI	., CL	0	C		0	0

AL = Alcove CL = Closet

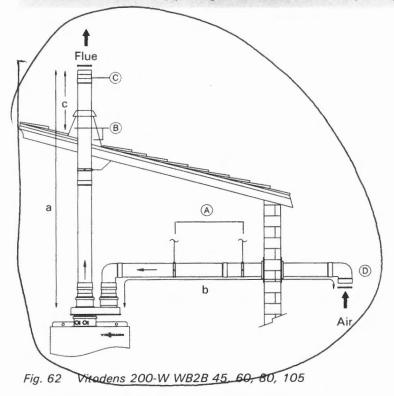
<sup>1</sup>Refer to the Installation Instructions of the Vitodens 200-W, WB2B Venting System for details.

#### Please note:

The Vitodens boiler has passed the zero inches vent clearance to combustibles testing requirements dictated by the Harmonized Standard ANSI Z21.13. CSA 4.9.2000 and therefore is listed for zero clearance to combustibles when vented with a single wall special venting system (AL-29-4C material). The zero inches vent clearance to combustibles for the Vitodens boiler supercedes the clearance to combustibles listing that appears on the special venting system label.

#### Vent Length Requirements (continued)

Maximum vent/air intake pipe length - horizontal/vertical (hybrid system) (continued)



#### Standard long sweep elbows (for CPVC pipe only)



For plastic pipe only

90° long sweep elbow equivalent to 5 ft. / 1.5 m *Fig. 63*  90° short sweep elbow equivalent to 8 ft. / 2.4 m (if used)

#### Note:

*If standard sweep elbows are used the allowable vent lengths are reduced. One standard 90° elbow is equivalent to 8 ft. / 2.4 m of straight pipe.* 

#### Table 44. Standard long sweep elbows

Material	90° elbow equivalent length ft. / m	45° elbow equivalent length ft. / m	87° elbow / 87° inspection tee ft. / m		
Stainless steel	3 / 0.91	2 / 0.61			
CPVC plastic pipe	5 / 1.52	3 / 0.91			
PP(s)		1 / 0.30	1.6 / 0.50		



Legend

- A Support system
- B Flashings
- © Exhaust (straight coupling) with screen
- D Combustion air intake with screen

5368 815 v2.7

- a Equivalent length (exhaust)
- b Equivalent length (air intake)
- c min. 18" / max. 48"

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## Vent Length Requirements

#### Equivalent vent length calculation example - stainless steel system with plastic air intake pipe

Vent type	Type of fitting	Equivalent length ft. / m
Exhaust vent pipe	90° elbow (stainless steel)	3 / 0.91
	45° elbow (stainless steel)	2 / 0.61
Air intake pipe	90° elbow (ABS/PVC)	5 / 1.52
	45° elbow (ABS/PVC)	3 / 0.91

Table 45. (see also fig. 63)

#### IMPORTANT

Always include vent termination length in calculations.

# Equivalent vent length calculation example (Vitodens WB1B and WB2B system diameter 3")

Maximum allowable equivalent length is 164 ft. / 50 m  $\,$  (see table 41 and fig. 53 on page 59)

#### Air intake pipe

1 x 90° plastic (ABS/CPVC/PVC) elbow .... 5 ft. / 1.52 m 1 x 45° plastic (ABS/CPVC/PVC) elbow ..... 3 ft. / 0.91 m

Exhaust vent pipe	10	ft.	/	3.05	m
Air intake pipe					
Combined total equivalent vent length					
(a + b)	38	ft.	/	11.58	3 m