

Job Summary Report
Job ID: 2011-05-982-HVAC

Report generated on May 9, 2011 10:34:24 AM

Page 1

Job Type:	HVAC	Job Description:	122-132 Sheridan St.	Job Year:	2011
Building Job Status Code:	Initiate Plan Review	Pin Value:	1346	Tenant Name:	
Job Application Date:		Public Building Flag:	N	Tenant Number:	
Estimated Value:	15,000	Square Footage:			
Related Parties:		& M PARTNERS A		<i>Property Owner</i>	
		JAMES M. GODBOUT - JAMES GODBOUT		<i>PLUMBING CONTRACTOR</i>	

Job Charges

Fee Code Description	Charge Amount	Permit Charge Adjustment	Net Charge Amount	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Net Payment Amount	Outstanding Balance
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Location ID: 1490

Location Details

Alternate Id	Parcel Number	Census Tract	GIS X	GIS Y	GIS Z	GIS Reference	Longitude	Latitude
A00200	013 J 007 001		M				-70.251141	43.666144

Location Type	Subdivision Code	Subdivision Sub Code	Related Persons	Address(es)
1				122 SHERIDAN STREET WEST

Location Use Code	Variance Code	Use Zone Code	Fire Zone Code	Inside Outside Code	District Code	General Location Code	Inspection Area Code	Jurisdiction Code
PARKING LOTS		RESIDENTIAL					DISTRICT 1	EAST END

Structure Details

Structure: commercial

30

Occupancy Type Code:

Structure Type Code	Structure Status Type	Square Footage	Estimated Value	Address
Commerical Mixed Use	0			122 SHERIDAN STREET WEST

Longitude	Latitude	GIS X	GIS Y	GIS Z	GIS Reference	User Defined Property	Value
						Dishwasher	1
						Fans	1
						Fans	2
						Fixtures-Incandescent	1
						Fixtures-Incandescent	3
						Fixtures-Incandescent	5

*New surfer family
2011-02-300*

not in Q

FILL IN AND SIGN WITH INK



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

OIB 5007 *Com*

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 128 Sheridan St ¹²⁸⁻¹³² Use of Building Res. Date 4-27-11

Name and address of owner of appliance Grand Sheridan St Portland Maine

Installer's name and address Jim Goodbout Port Inc

Telephone 2072831200

Location of appliance:

- Basement
- Floor mechanical room
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Wiesmann Vitodens

U.L. Approved Yes No 200

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 # 05993
- Solid Fuel # _____
- Oil # _____
- Gas # ONT 1540
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____

- Metal

Factory Built U.L. Listing # _____

- Direct Vent

Type _____ UL# Witodens 200

RECEIVED
MAY 23 2011
Dept. of Building Inspection
City of Portland Maine

Type of Fuel Tank

- Oil
- Gas

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 15k

Permit Fee: \$ 170.

Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: _____

- See attached letter or requirement

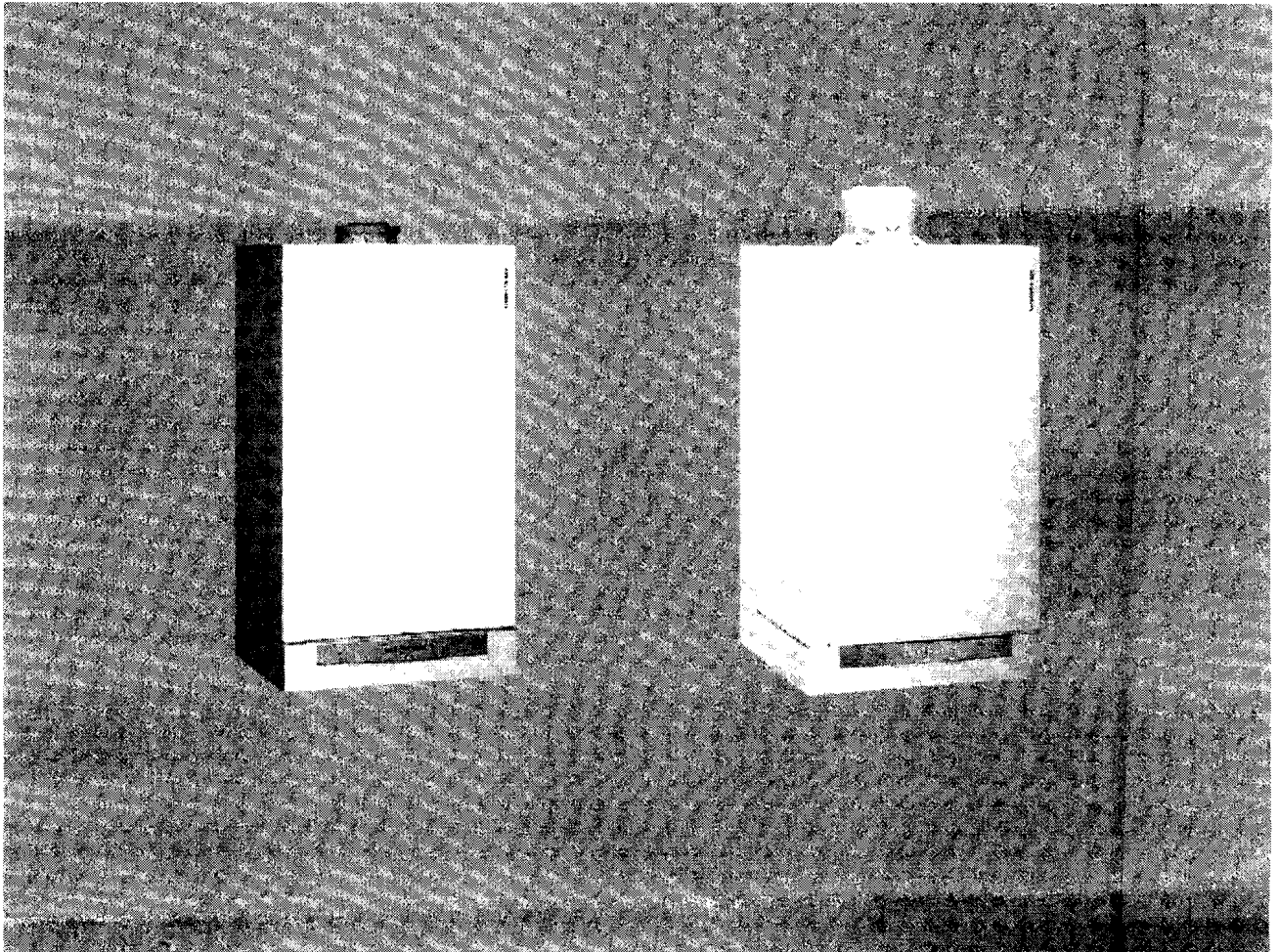
Inspector's Signature _____

Date Approved _____

Signature of Installer [Signature]

Technical Data Manual

Model Nos. and pricing: see Price List

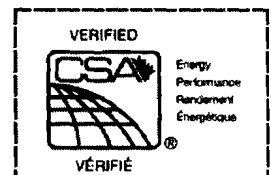
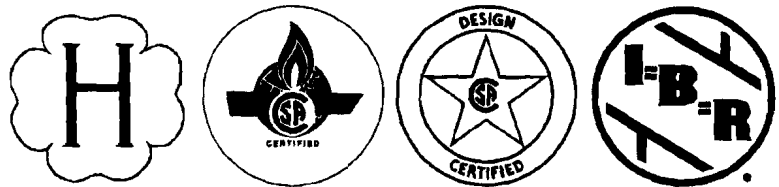


Vitodens 200-W

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



Technical Data

Table 1.

Boiler Model	Model No. WB2B-	19	26	35	45	60	80	105* ^A
Natural gas / Liquid propane gas								
CSA input	MBH	31-67	31-93	31-125	60-160	60-212	104-285	104-370
	kW	9-20	9-27	9-37	17-47	17-62	30-83	30-108
CSA output/DOE* ¹	MBH	28-61	28-85	28-114	55-146	55-194	95-260	98-350
heating capacity	kW	8-18	8-25	8-33	16-43	16-57	28-76	29-103
Net I = B = R rating* ²	MBH	53	74	99	127	169	226	304
Heat exchanger surface area	ft. ²	10.23	10.23	10.23	15.76	15.76	28.88	28.88
	m ²	0.95	0.95	0.95	1.46	1.46	2.68	2.68
Min. gas supply pressure								
Natural gas	"w.c.	4	4	4	4	4	4	4
Liquid propane gas	"w.c.	10	10	10	10	10	10	10
Max. gas supply pressure*³								
Natural gas	"w.c.	14	14	14	14	14	14	14
Liquid propane gas	"w.c.	14	14	14	14	14	14	14
A.F.U.E.	%	96.1	96.1	96.1	96.1	96.1	96.1	
CSA thermal efficiency ANSI Z21.13/CSA 4.9	%							94.5
Weight	lbs	102	102	102	155	155	225	225
	kg	46	46	46	70	70	102	102
Boiler water content	USG	0.87	0.87	0.87	1.9	1.9	3.4	3.4
	L	3.3	3.30	3.3	7.2	7.2	12.8	12.8
Boiler max. flow rate* ⁴	GPM	6.2	6.2	6.2	15.4	15.4	35.2	35.2
	L/h	1400	1400	1400	3500	3500	8000	8000
Max. operating pressure at 210°F / 99°C	psig	45	45	45	60	60	60	60
	bar	3	3	3	4	4	4	4
Boiler water temperature								
– Adjustable high limit (AHL) range								
space heating	°F/			68 to 165 /			68 to 176 /	
(steady state)	°C			20 to 74			20 to 80	
DHW production	°F/			165 /			176 /	
	°C			74			80	
– Fixed high limit (FHL)	°F/°C			210/99			210/99	
Boiler connections								
Boiler heating supply and return	NPTM "	¾	¾	¾	1 ¼	1 ¼	1 ¼	1 ¼
Pressure relief valve	NPTF "	¾	¾	¾	¾	¾	¾	¾
Drain valve	(male thread)	¾	¾	¾	¾	¾	¾	¾
Boiler supply/return for indirect-fired DHW storage tank (field supplied)	NPT"	¾	¾	¾	1 ¼	1 ¼	1 ¼	1 ¼
Gas valve connection	NPTF	¾	¾	¾	1	1	1	1

*^A For high altitude installations (5,000 - 10,000 ft.), the input for model WB2B 105 will have an altitude de-ration of 14% for 5,000 ft. and 28% for 10,000 ft. (average of 2.8% / 1,000 ft.).

*¹ Output based on 140°F / 60°C, 120°F / 49°C system supply/return temperature.

*² Net I = B = R rating based on piping and pick-up allowance of 1.15.

*³ If the gas supply pressure exceeds the maximum gas supply pressure value, a separate gas pressure regulator must be installed upstream of the heating system.

*⁴ See "Typical System Flow Rates" on page 11 in this manual.

Table 1 (continued)

Boiler Model	Model No. WB2B-	19	26	35	45	60	80	105 ^{*A}
Dimensions								
Overall depth	inches	14	14	14	15	15	21	21
	mm	360	360	360	380	380	530	530
Overall width	inches	17 1/4	17 1/4	17 1/4	19	19	19	19
	mm	450	450	450	480	480	480	480
Overall height	inches	33 1/2	33 1/2	33 1/2	33 1/2	33 1/2	33 1/2	33 1/2
	mm	850	850	850	850	850	850	850
Height with flue gas elbow (accessory)	inches	44	44	44	47 1/4	47 1/4	47 1/4 ^{*9}	47 1/4 ^{*9}
	mm	1116	1116	1116	1200	1200	1200	1200
Flue gas^{*5}								
Temperature (at boiler return temperature of 86°F / 30°C)								
- at rated full load	°F/°C	113/45	113/45	113/45	95/35	104/40	95/35	104/40
- at rated partial load	°F/°C	95/35	95/35	95/35	91/33	95/35	91/33	95/35
Temperature (at boiler return temperature of 140°F / 60°C)								
	°F/°C	154/68	158/70	158/70	149/65	158/70	149/65	158/70
Average condensate flow rate^{*6}								
with natural gas and T _S /T _R = 104/86°F / 40/30°C								
	USG/day	2.6-3.4	2.9-3.4	4-4.5	3.7-5	6-7.4	6.6-7.9	9.5-10.5
	L/day	10-12	11-13	15-17	14-19	23-28	25-30	35-40
Condensate connection^{*7}								
	hose nozzle							
	∅ in	1	1	1	1	1	1	1
Boiler flue gas connection^{*8}								
	∅							
	in/mm	2 ³ / ₈ / 60	2 ³ / ₈ / 60	2 ³ / ₈ / 60	3/4 / 80	3/4 / 80	4 ³ / ₈ / 110	4 ³ / ₈ / 110
Combustion air supply connection (coaxial)^{*8}								
	outer							
	∅ in/mm	4/100	4/100	4/100	5/125	5/125	6/150	6/150

^{*A} For high altitude installations (5,000 - 10,000 ft.), the input for model WB2B 105 will have an altitude de-ration of 14% for 5,000 ft. and 28% for 10,000 ft. (average of 2.8% / 1,000 ft.).

^{*5} Measured flue gas temperature with a combustion air temperature of 68°F / 20°C.

^{*6} Based on typical boiler cycles, including partial load conditions.

^{*7} Requires 1" / 25 mm tubing. See the Installation Instructions of the Vitodens 200-W, WB2B for details.

^{*8} For side wall vent installations (coaxial system):

Do not exceed max. equivalent length specified in the Installation Instructions of the Vitodens 200-W, WB2B Venting System.

A maximum of 5 elbows may be installed in the vent system.

Do not attempt to common-vent Vitodens 200-W with any other appliance.

Venting material to be supplied by Viessmann only; side wall vent installation must include Viessmann protective screen!

For details refer to the Installation Instructions for the Vitodens 200-W, WB2B Venting System.

^{*9} Add 2 1/2" / 65 mm for coaxial vent pipe transition adaptor.

► For information regarding other Viessmann System Technology componentry, please reference documentation of respective product.

Dimensional Information

Models WB2B 19, 26, 35

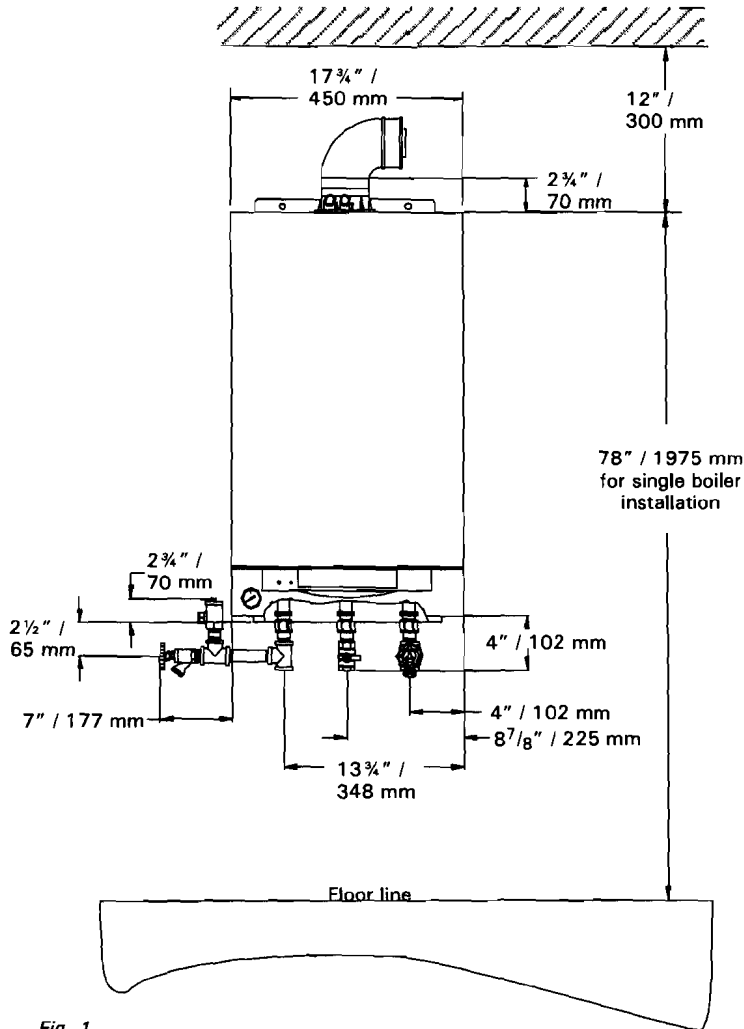


Fig. 1

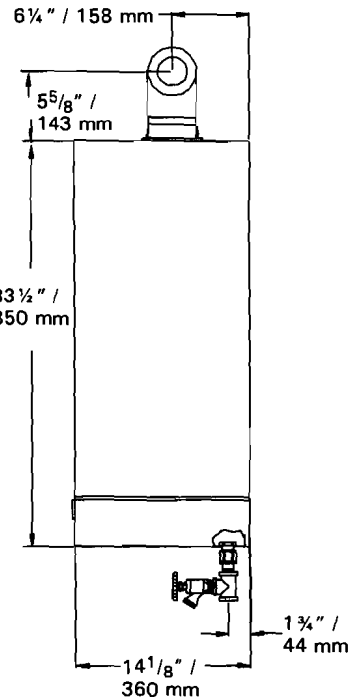


Fig. 2

Legend

- BD Boiler Drain
- BR Boiler Return
- BS Boiler Supply
- AV Air Vent (not shown)
- GC Gas Connection, 1/2" NPT
- PRV Pressure Relief Valve
- BF Boiler Fill
- PG Pressure Gage
- EXT Extension Adaptors, 3/4" NPT
- DR Boiler heating return for domestic hot water production 3/4" (field supplied)
- DS Boiler heating supply for domestic hot water production 3/4" (field supplied)

* 1 See page 38 for alternate DHW connection.

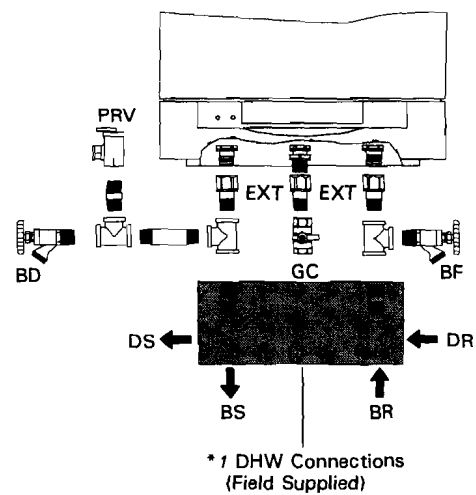


Fig. 3

* 1 DHW Connections (Field Supplied)

Recommended Minimum Service Clearances

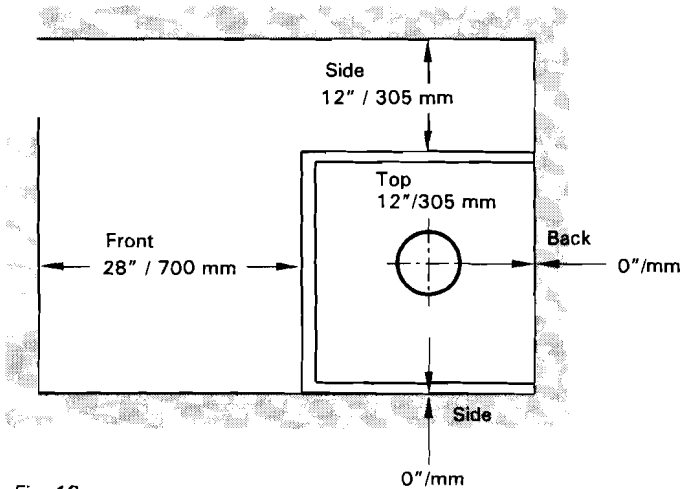


Fig. 10

Minimum Clearances to Combustibles

Top	Front	Rear	Left	Right	Vent pipe ^{*1}
0	0 AL, CL	0	0	0	0

AL = Alcove

CL = Closet

^{*1}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.

Appendix

Vitodens 200-W Venting Alternatives

Venting Alternatives	Max. Equivalent Length (EqL)	Vent System Diameter									Type Diameter
		Viessmann Coaxial PVC Vent ¹			Stainless Steel Vent ²			CPVC Vent ³			
		60/100	80/125	100/150	3"	4"	2"	3"	4"		
Horizontally Vented											
WB2B-19	EqL	33 / 10	43 / 13	52 / 16	148 / 45	180 / 55	115 / 35	148 / 45	180 / 55	ft. / m	
WB2B-26	EqL	33 / 10	43 / 13	52 / 16	148 / 45	180 / 55	115 / 35	148 / 45	180 / 55	ft. / m	
WB2B-35	EqL	26 / 8	36 / 11	49 / 15	148 / 45	180 / 55	115 / 35	148 / 45	180 / 55	ft. / m	
WB2B-45	EqL		33 / 10	43 / 13	98 / 30	148 / 45		98 / 30	148 / 45	ft. / m	
WB2B-80	EqL		33 / 10	43 / 13	98 / 30	148 / 45		98 / 30	148 / 45	ft. / m	
WB2B-80	EqL			43 / 13		131 / 40			131 / 40	ft. / m	
WB2B-105	EqL			43 / 13		131 / 40			131 / 40	ft. / m	
	See Page(s)		44		46-49			50-53		Page	
Vertically Vented											
WB2B-19	EqL	30 / 9	39 / 12	52 / 16	148 / 45	180 / 55	115 / 35	148 / 45	180 / 55	ft. / m	
WB2B-26	EqL	30 / 9	39 / 12	52 / 16	148 / 45	180 / 55	115 / 35	148 / 45	180 / 55	ft. / m	
WB2B-35	EqL	23 / 7	34 / 10.5	49 / 15	148 / 45	180 / 55	115 / 35	148 / 45	180 / 55	ft. / m	
WB2B-45	EqL		33 / 10	43 / 13	98 / 30	148 / 45		98 / 30	148 / 45	ft. / m	
WB2B-80	EqL		20 / 6	33 / 10	98 / 30	148 / 45		98 / 30	148 / 45	ft. / m	
WB2B-80	EqL			43 / 13		131 / 40			131 / 40	ft. / m	
WB2B-105	EqL			43 / 13		131 / 40			131 / 40	ft. / m	
	See Page(s)		45		46-49			50-53		Page	

¹ Sealed combustion, coaxial vent material to be supplied by Viessmann only.

² Stainless steel vent material must be ULC/UL listed, stainless steel AL29-4C® for Category IV boilers.

Suggested sources: Flexmaster Canada Ltd. / Z-Flex (US) Inc., Heat-fab, ProTech Systems Inc., or Security Chimneys Int'l.

³ CPVC vent material must be ULC/UL listed, for Category IV boilers. Suggested source: IPEX Inc.

▶ Do not include first 90° elbow in equivalent vent length calculations (this applies to all vent materials).

▶ Always follow Viessmann venting installation instructions 5368 815.

Appendix

Coaxial PPs Vent System

Vent System	Vent System Diameter			Diameter		
	60/100	80/125	100/150			
Horizontally Vented	Maximum Equivalent Length (EqL)	WB2B -19/-26 33 / 10	-19/-26 43 / 13	-19/-26 52 / 16	ft. / m	
		WB2B -35 26 / 8	-35 36 / 11	-35 49 / 15	ft. / m	
		WB2B	-45/-60 33 / 10	-45/-105 43 / 13	ft. / m	
Room Air Independent Operation	Basic Horizontal Vent Kit	7424 119	7424 120	7424 121	Order No.	
Important! As a starting point, please pay attention to boiler vent connection size	Venting pieces can be ordered individually, or as a convenient kit using the Order No. to the right; Basic Vent Kit includes one of each of the items numbered ② to ⑤, and two Mounting Clips ⑥.					
	① Boiler Vent Pipe Adaptor	included with boiler				
		Flue Transition 110/150 to 100/150 only not shown - required WB2B 80/105	—	—	7424 115	Order No.
		Adaptor, coaxial 80/100 to 80/125 not shown - only for WB2B 19/26/35	—	7424 112	—	Order No.
		Adaptor, coaxial 60/100 to 100/150 not shown - only for WB2B 19/26/35	—	—	7424 113	Order No.
		Adaptor, coaxial 80/125 to 100/150 not shown - only for WB2B 45/60	—	—	7424 114	Order No.
		② 90° Elbow EqL = 1.6ft. / 0.5m	7424 094	7424 095	7424 096	Order No.
	③ Straight Pipe ² 3.3ft. / 1m	7424 091	7424 092	7424 093	Order No.	
	④ Vent Termination 2.6ft. / 0.8m	7424 100	7424 101	7424 102	Order No.	
	⑤ Protective Screen ¹		7134 237		Order No.	
	⑥ Mounting Clip ² (each)	7424 109	7424 110	7424 111	Order No.	
Other Available Vent Pieces not shown in illustration above	Sliding Coupling 1.25ft. / 0.4m	7424 106	7424 107	7424 108	Order No.	
	Straight Pipe ² 1.6ft. / 0.5m	7424 088	7424 089	7424 090	Order No.	

IMPORTANT:
Do not use any DWV plumbing pipes to vent this boiler.

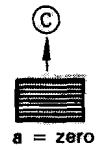
CPVC Vent System (continued)

Vent System	Vent System Diameter				Diameter
	2"	3"	4"		
Vertically Vented	Maximum Equivalent Length (EqL)	WB2B a + b ≤ 115 / 35	-19...-35 148 / 45	-19...-35 180 / 55	
Room Air Independent Operation		1 Boiler Vent Adaptor	included with boiler		
		2 Adaptor(s), CPVC 60mm to 2"	7134 769		Order No.
		3 Adaptor(s), CPVC 2" to 3"	—	field supplied	field supplied
		3" to 4" (not shown)	—	—	field supplied
		4 Venting Support ²	field supplied		
		5 ULC/UL listed CPVC Vent Material ¹ for EqL calculations, use: ■ 45° Elbow EqL = 3ft. / 0.9m ■ 90° Elbow EqL = 5ft. / 1.5m	field supplied		
		6 Adaptor(s), CPVC 60mm to 2"	7134 769		Order No.
		7 2" to 3" or 2" to 4"	field supplied		
		8 Combustion Air Intake Vent Material Allowable materials: see note below ³	field supplied		
		9 Bird Screen (set of 2) for CPVC	7134 780	7134 781	7134 782
		1 Boiler Vent Adaptor	included with boiler		
		2 Adaptor(s), CPVC 60mm to 2"	7134 769		Order No.
		3 Adaptor(s), CPVC 2" to 3"	—	field supplied	field supplied
		3" to 4" (not shown)	—	—	field supplied
		4 Venting Support ²	field supplied		
		5 ULC/UL listed CPVC Vent Material ¹ for EqL calculations, use: ■ 45° Elbow EqL = 3ft. / 0.9m ■ 90° Elbow EqL = 5ft. / 1.5m	field supplied		
		9 Bird Screen (set of 2) for CPVC	7134 780	7134 781	7134 782

(A) Combustion Air Intake
(B) Flue Gas Outlet

Room Air Dependent Operation

(A) Combustion Air Intake
(B) Flue Gas Outlet
(C) Air Opening



5369 295 v1.2

¹ CPVC vent material **must** be ULC/UL listed, for Category IV boilers. Suggested source: IPEX Inc.
² Boiler cannot support weight of vent system. Support venting as prescribed in vent manufacturer's installation instructions.
³ Combustion air supply pipe may be made of the following materials: ABS, CPVC, PVC, or stainless steel.
 ▶ Do not include first 90° elbow in equivalent vent length calculations (this applies to all vent materials).
 ▶ A **maximum** of 5 x 90° elbows may be installed in the air intake and flue outlet combined; do not exceed maximum equivalent vent length.