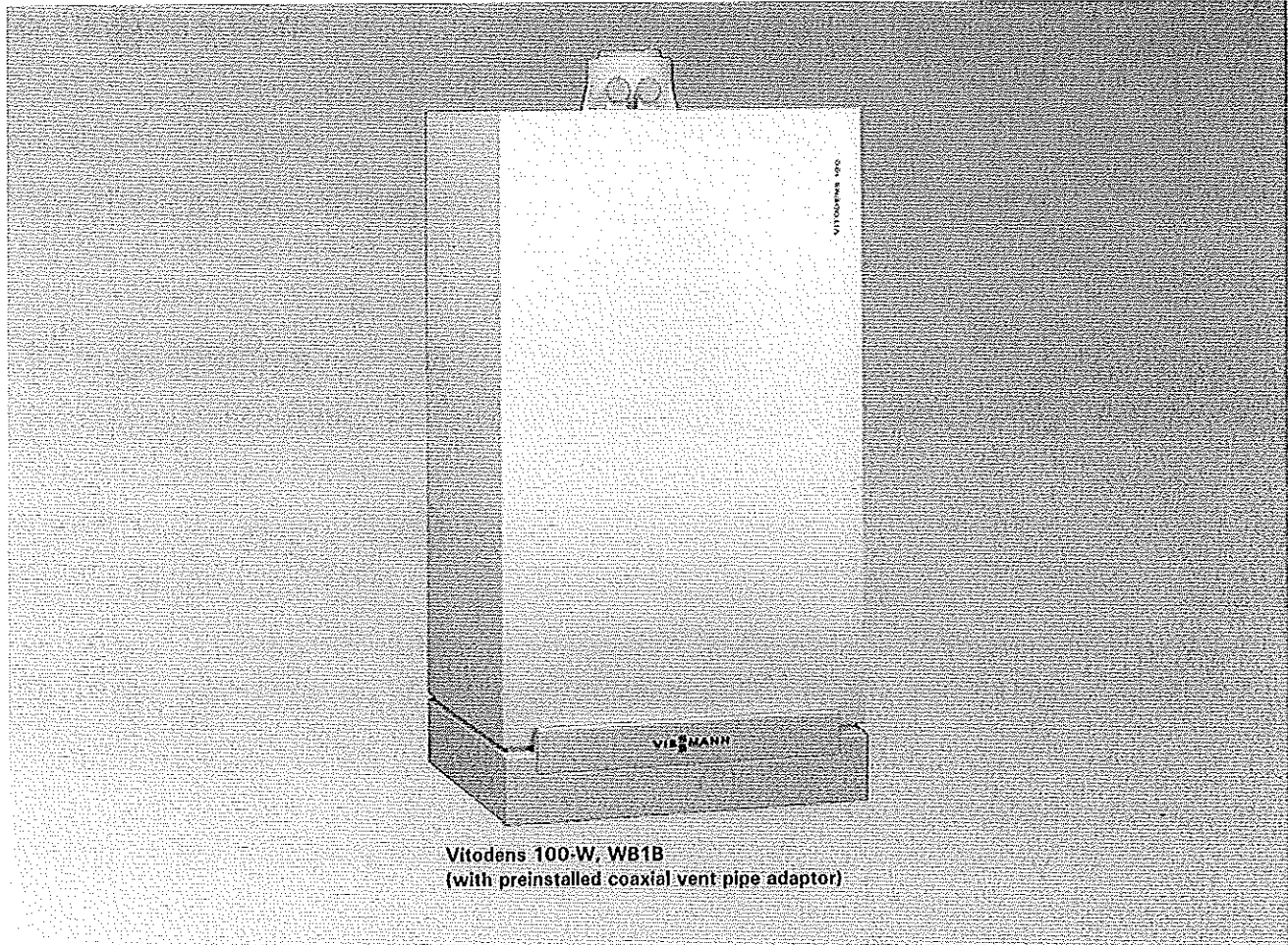


# Technical Data Manual

Model Nos. and pricing: see Price List

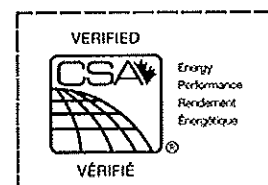
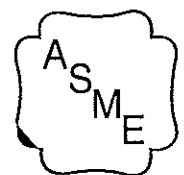
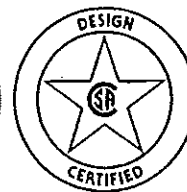


Vitodens 100-W, WB1B  
(with preinstalled coaxial vent pipe adaptor)

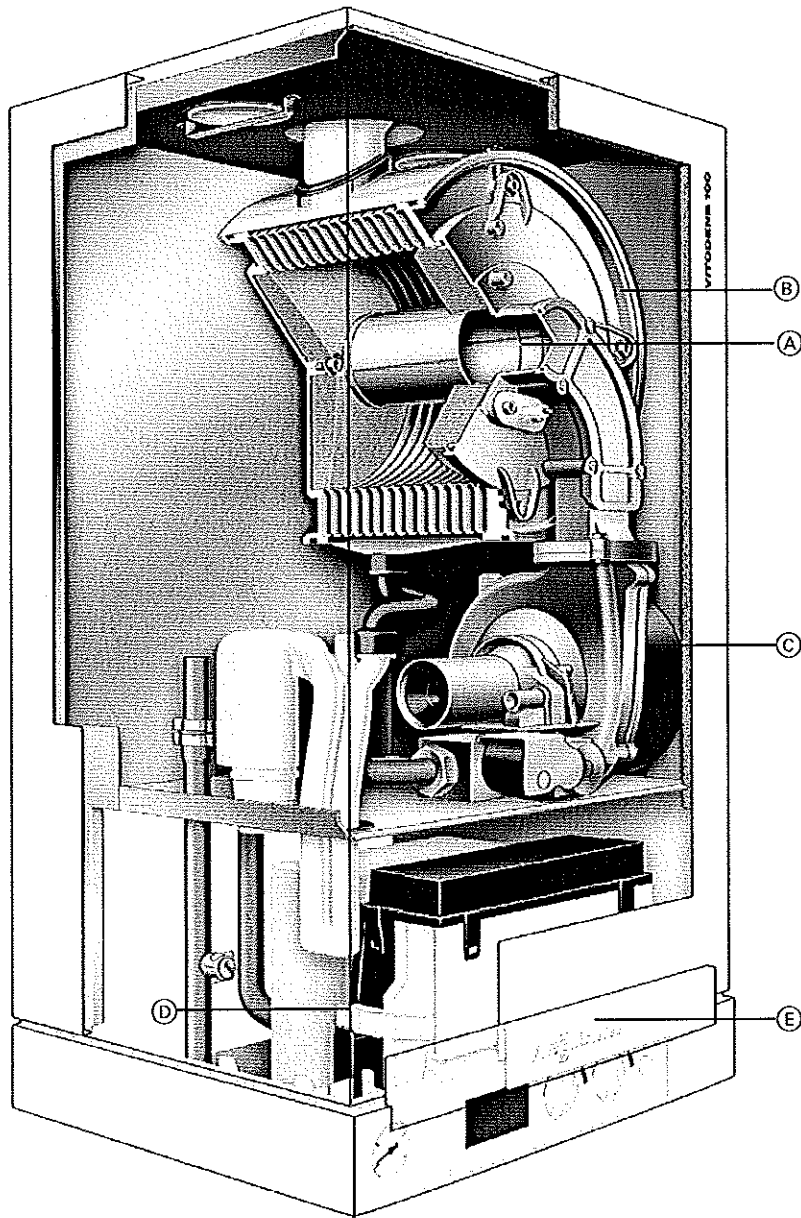
## Vitodens 100-W

### WB1B Series

Gas-Fired Wall-Mounted Condensing Boiler with modulating stainless steel Matrix cylinder burner and stainless steel Inox-Radial heat exchanger for room air independent operation (using a direct vent system) or room air dependent operation



## Product Information Cross-Section



### Legend

- Ⓐ Stainless steel Matrix cylinder burner
- Ⓑ Inox-Radial stainless steel heat exchanger
- Ⓒ Burner blower
- Ⓓ Gas and hydronic connections
- Ⓔ Boiler control

### Standard Equipment:

Wall-mount boiler and installation fittings c/w 30 psi pressure relief valve, pressure gage, gas shut-off valve, two fill/drain valves, all mounting hardware, outdoor temperature sensor, and LP conversion kit.

Product may not look exactly as illustrated.

# Appendix

## Coaxial PPs Vent System

Vent System /	Vent System Diameter			Diameter	
	60/100	80/125	100/150		
Horizontally Vented	Maximum Equivalent Length (EqL)	82 / 25	98 / 30	118 / 36	ft. / m
Room Air Independent Operation	Basic Horizontal Vent Kit 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.	7424 119	—	—	Order No.
<p>① Boiler Vent Pipe Adaptor 60/100</p> <p>② 90° Elbow EqL = 1.6ft. / 0.5m</p> <p>③ Straight Pipe<sup>2</sup> 3.3ft. / 1m</p> <p>④ Vent Termination 2.6ft. / 0.8m</p> <p>⑤ Protective Screen<sup>1</sup></p> <p>⑥ Mounting Clip<sup>2</sup> (each)</p> <p>(A) Combustion Air Intake (B) Flue Gas Outlet</p>	① Boiler Vent Pipe Adaptor 60/100	included with boiler	—	—	Order No.
	Adaptor, coaxial 60/100 to 80/125 (not shown)	—	7424 112	—	Order No.
	Adaptor, coaxial 60/100 to 100/150 (not shown)	—	—	7424 113	Order No.
	② 90° Elbow EqL = 1.6ft. / 0.5m	7424 094	7424 095	7424 096	Order No.
	③ Straight Pipe <sup>2</sup> 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 <sup>1</sup>	—	7134 237	—	Order No.
	⑥ Mounting Clip <sup>2</sup> (each)	7424 109	7424 110	7424 111	Order No.
	Sliding Coupling 1.25ft. / 0.4m	7424 106	7424 107	7424 108	Order No.
	Straight Pipe <sup>2</sup> 1.6ft. / 0.5m	7424 088	7424 089	7424 090	Order No.
45° Elbow (Set of 2) EqL = 1.0ft. / 0.3m	7424 097	7424098	7424 099	Order No.	
Other Available Vent Pieces not shown in illustration above					

<sup>1</sup> PPs coaxial vent material must be ULC S-636 certified for Category IV boilers. Do not mix non-ULC S-636 with ULC S-636 venting.

Side wall venting installation must include Viessmann Protective Screen!

<sup>2</sup> Order 1 Mounting Clip for each straight length of vent pipe installed.

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

▶ A maximum of 5 elbows may be installed in the vent system; do not exceed maximum equivalent vent length.

▶ Always follow Viessmann venting installation instructions 5368 815.