

# Gas Condensing Technology VITODENS® 200-W, B2HA

**VIESSMANN®**  
climate of innovation®



## Gas Condensing Technology

## Vitodens 200-W, B2HA – 12 to 530 MBH

Gas-fired condensing technology for outstanding performance, reliability and comfort



The Vitodens 200 is ENERGY STAR® qualified and EcoLogo™ certified. By choosing the Vitodens 200, you are helping to promote cleaner air and a healthier environment.



New! Vitotronic 200 control with graphic user interface

### Intelligent combustion control

The new Vitodens 200, B2HA is optimized for maximum performance with the intelligent Lambda Pro combustion management system, which adapts combustion to changing gas qualities and operating conditions automatically. This unique function becomes increasingly important as gas supplies vary in quality and heating value.

### Efficient by design

At the core of the new Vitodens 200, B2HA are the Viessmann stainless steel Inox-Radial heat exchanger and MatriX cylinder burner. Together, they allow the greatest amount of heat extraction to be achieved with minimal loss (see diagram for more information).

### New! Award winning control unit

The intuitive Viessmann-made Vitotronic 200, HO1B control manages the entire heating system and ensures economical performance

and maximum comfort at all times. The user-friendly, menu-driven control is capable of displaying multi-line text and graphics on a backlit display. The high-contrast, monochrome display offers excellent readability under poor lighting conditions.

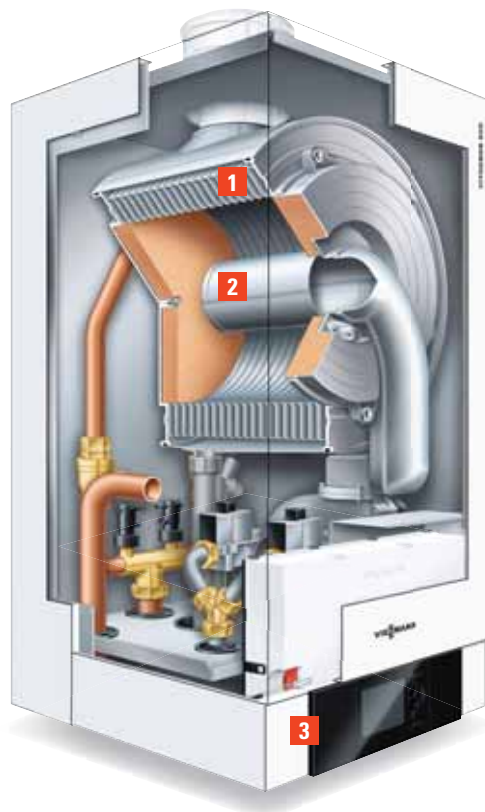
The outdoor reset function automatically adapts the boiler operating temperature to the changing outdoor temperature. This reduces fuel consumption up to 15%, giving you excellent returns year after year on a modest initial investment. Plus, with system control for multiple zone space and DHW heating, the Vitotronic 200, HO1B offers even greater heating flexibility without additional external controls.

### Your environmental choice

The Vitodens 200 is your efficient and environmentally-friendly choice for all applications. The low-emission MatriX cylinder burner guarantees clean, low-NOx combustion, while Lambda Pro ensures the highest efficiency at all times. With the Vitodens 200 you can actively contribute to protecting the environment – and your wallet – without compromising your warmth and comfort.

### Strength in numbers

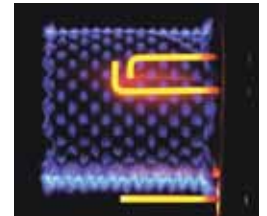
As many as eight Vitodens 200 gas-fired condensing boilers can be combined in a single prefabricated cascade system, with inputs up to 4240 MBH. As a cascade system fires boilers to meet fluctuating heating demands, it maintains maximum efficiency by precisely matching the load. A cascade system can also prevent interruption of heating plant operation, with multiple boilers available for back-up.



- 1 Inox-Radial heat exchanger
- 2 Modulating MatriX cylinder burner
- 3 Vitotronic 200 control with graphic user interface



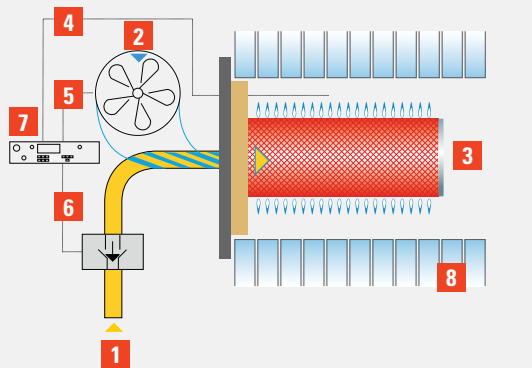
Stainless steel Inox-Radial heat exchanger



Low-emission, Viessmann-made Matrix cylinder burner

### What is Lambda Pro?

By continuously monitoring the flame quality of the MatrixX cylinder burner, the Lambda Pro combustion management system automatically adjusts the gas and combustion air ratio. Without any manual adjustments or conversions, the Vitodens 200, B2HA always maintains optimal performance.



- |                           |                      |
|---------------------------|----------------------|
| 1 Gas supply              | 5 Air signal         |
| 2 Combustion air          | 6 Gas signal         |
| 3 MatrixX cylinder burner | 7 Vitotronic control |
| 4 Flame signal            | 8 Heat exchanger     |

### Specifications

- Viessmann-made SA240 316 Ti stainless steel Inox-Radial heat exchanger constructed to CSA B51 and ASME Section IV
- Viessmann-made stainless steel MatrixX cylinder burner
- 9 models from 12 to 530 MBH (single-boiler installation)
- Exceeds Energy Star® Efficiency Requirements
- Suitable for altitude levels up to 10,000 ft. / 3,000 m

*For technical data, see back page.*

### Benefits at a glance

- Best value in its class with new industry-leading technology and the most standard features
- Low-emission combustion for environmentally-friendly operation
- Intelligent Lambda Pro gas management system automatically adjusts to different gas qualities for optimum efficiency and performance
- New Vitotronic 200 control features large display with text and graphics for user-friendly operation
- Extended application range with increased capacity up to 530 MBH (single boiler) / 4240 MBH (cascade of 8 boilers)
- Modulation ratio up to 6.5:1 ensures extremely high efficiency
- Multiple venting options and greater venting flexibility with vent length up to 180 ft.
- Common venting up to four boilers<sup>†</sup>

<sup>†</sup> Available 4th quarter 2013.

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## Technical Data



**Vitodens 200-W, B2HA** gas-fired wall-mounted condensing boiler

Model	B2HA	19	28	35	45	60	80	100	112	150
<b>Min. Input</b>	MBH	12	19	19	60	60	104	104	113	113
<b>Max. Input</b>	MBH	67	100	125	160	212	285	352	399	530
<b>Dimension</b>										
Width	in.	17.75	17.75	17.75	19	19	19	19	23.63	23.63
Height	in.	41	41	41	40.63	40.63	43.5	43.5	44.5	44.5
Depth	in.	14	14	14	15	15	21	21	27.1	27.1
<b>Weight</b>	lbs	101	106	106	155	155	194	194	298	298

Note: For high altitude installations (5,000 to 10,000 ft.), the input for model B2HA 100 and 150 will have an altitude de-rating of 14% for 5,000 ft. and 29% for 10,000 ft. The input for model B2HA 112 at 10,000 ft. will have an input de-rate of 21%. Information subject to change without notice.

