



**VIESSMANN**

**GAS-WALL-MOUNTED CONDENSING BOILER**

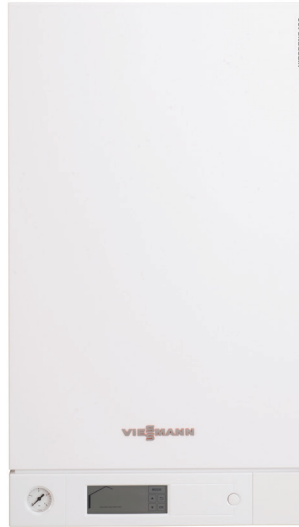
Space Heating or Combi Boiler  
Ideal for Condominiums and Single-Family Homes  
**VITODENS 100-W**



**Heating with Gas**

High efficiency space heating or combi boiler system for all homes and budgets.

Compact and efficient wall-mounted condensing boiler with exemplary price:performance ratio, delivering efficient heating and on-demand domestic hot water\*



The Vitodens 100-W offers design and efficiency in a single package.

With its outstanding design and price:performance ratio, the Vitodens 100-W is the perfect mix of performance and value. Either combined with an indirect water heater, or as a standalone combi boiler, there is a Vitodens 100-W for most single-family homes.

Its compact design, zero clearance to combustibles and extremely quiet operation make the Vitodens 100-W an ideal choice even in the smallest spaces. Plus, with a limited residential lifetime warranty, you can be sure your investment will deliver long-lasting value.

#### **Vitodens 100-W: Outstanding Versatility**

The Vitodens 100-W offers the right solution for every demand, including multiple venting options to fuel flexibility (natural gas or liquid propane) right out of the box, and space heating or all-in-one combi options. Plus, installation, service and maintenance are designed to be fast and easy with all pipe connections located at the bottom and serviceable components easily accessible from the front.

#### **Domestic Hot Water To Fit Your Family's Needs Combi And Heat-Only Options**

Vitodens 100-W, B1KA combi boiler (B1HA models feature space-heating only). The B1KA (combi) offers an outstanding flow rate of up to 3.7 GPM†, plus added cost

savings with the energy-saving on-demand design.

For more hot water on demand, the B1HA (space heating only) makes an excellent pairing with Vitocell DHW tanks. With an integrated indirect circulator, this combination delivers highly efficient, dependable on-demand hot water and space heating for families.

Installation is easy with the brazed-plate stainless steel heat exchanger, DHW temperature and flow sensors, 3-speed pump, and 3-way diverting valve all built-in to form one compact, lightweight, space saving unit.

\* On-demand domestic hot water available with Vitodens 100 B1KA models

† At a 69 °F maximum temperature rise with Vitodens 100, B1KA 35





User-friendly touchscreen control unit

**MatriX Cylinder Burner:  
The Heart Of Your Heating**

The Viessmann-made modulating MatriX cylinder burner offers extremely clean combustion and quiet operation with either liquid propane gas or natural gas (available on all models).

**Stainless Steel Inox-Radial Heat Exchanger:  
Efficient And Reliable**

The Vitodens 100-W is equipped with a stainless steel Inox-Radial heat exchanger. Developed and manufactured by Viessmann, this high-quality stainless steel component maximizes performance and reliability. Plus, the self-cleaning heat exchanger contributes to the boiler's long service life and dependable performance.



Stainless Steel Inox-Radial Heat Exchanger

**BENEFITS AT A GLANCE**

- + Fits every home and budget
- + Extremely quiet; quieter than most refrigerators
- + Durable and efficient Viessmann-made stainless steel Inox-Radial heat exchanger and MatriX burner
- + Outstanding efficiency of 95% A.F.U.E. on all Vitodens 100-W models
- + Fully-modulating input eliminates energy waste
- + Simple to install and service with 4 pipe hydronic connection design with built-in primary pump and diverter valve

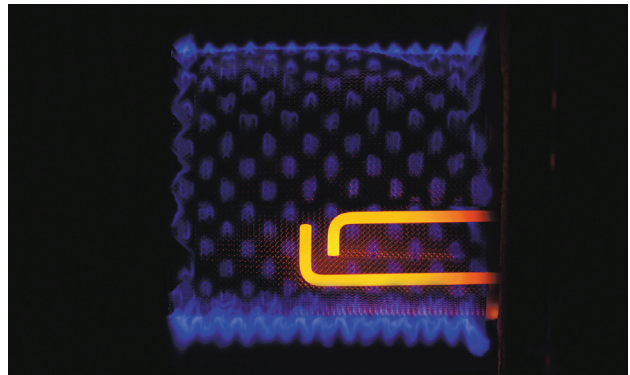
Warranty information is available at [viessmann-us.com/warranty](http://viessmann-us.com/warranty)

**User-Friendly Touchscreen Control Unit**

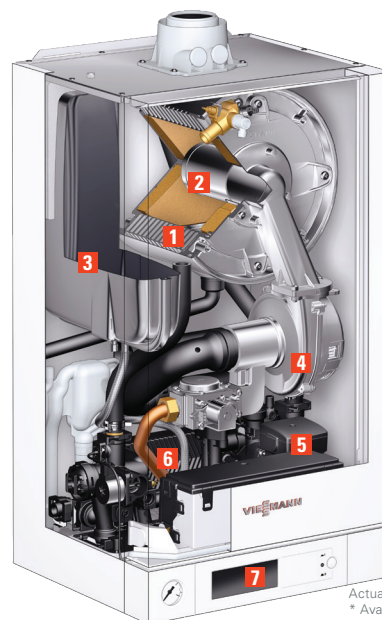
The Vitodens 100-W gas condensing boilers utilize touchscreen control with enhanced programming. The backlit LCD touchscreen display offers excellent readability even under poor lighting conditions.

**Helps You Save**

Select an easy-to-use room thermostat and utilize the boiler's on-board control, which automatically adjusts the boiler water to outdoor temperatures. This not only boosts fuel savings, but also keeps your home warm and comfortable at all times.



Low-emission, Viessmann-made MatriX cylinder burner



**VITODENS 100-W**  
B1KA Combi Boiler

- 1 Stainless Steel Inox-Radial heat exchanger
- 2 Modulating MatriX cylinder burner
- 3 Integral heat expansion tank\*
- 4 Variable speed combustion fan
- 5 Integrated pump
- 6 Brazed-plate DHW heat exchanger\*
- 7 Backlit LCD Touchscreen Controls

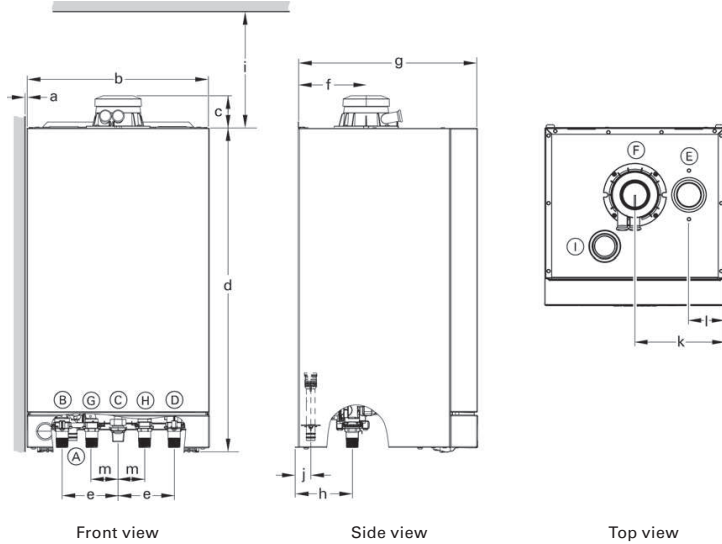
Actual product may vary from illustrated image  
\* Available only on Vitodens 100-W B1KA Combi boilers

# Wall-Hanging Condensing Boiler

## VITODENS 100-W



Viessmann Manufacturing  
Company Inc.  
Warwick, RI, 02886  
1-800-288-0667  
[viessmann-us.com](http://viessmann-us.com)



### Dimensions:

- a ¼" - both sides of the boiler
- b 15 ¾"
- c 2 ⅝"
- d 27 ½"
- e 4 ⅞"
- f 6"
- g 15 ¾"
- h 5"
- i 9 ⅞" minimum
- j 1 ⅞"
- k 7 ⅞"
- l 3 ⅞"
- m 2 ¼"

### Vitodens 100-W B1HA, B1KA

| Vitodens  |                 | B1HA         | B1HA         | B1KA         |
|---|-----------------|--------------|--------------|--------------|
| <b>Model</b>  |                 | <b>26</b>    | <b>35</b>    | <b>35</b>    |
| <b>Maximum Input (NG)</b>   | MBH             | 94           | 125          | 125          |
| <b>Minimum input (NG)</b>   | MBH             | 21           | 21           | 21           |
| <b>NET AHRI Rating</b>  | MBH             | 76           | 101          | 101          |
| <b>AFUE</b>   | %               | 95           | 95           | 95           |
| <b>Overall Dimensions</b>   |                 |              |              |              |
| Depth   | inches          | 15.75        | 15.75        | 15.75        |
| Width   | inches          | 15.75        | 15.75        | 15.75        |
| Height  | inches          | 30.25        | 30.25        | 30.25        |
| <b>Weight</b>   | lbs             | 79.4         | 79.4         | 90           |
| <b>Boiler water content</b>   | USG             | 1.02         | 1.02         | 1.02         |
| <b>Heat exchanger surface</b>   | ft <sup>2</sup> | 12.96        | 12.96        | 12.96        |
| <b>Maximum operating pressure</b>                                     | psig            | 45           | 45           | 45           |
| <b>Minimum gas supply pressure</b>                                    |                 |              |              |              |
| Natural Gas   | "w.c.           | 4            | 4            | 4            |
| LPG   | "w.c.           | 10           | 10           | 10           |
| <b>Boiler water temperature maximum</b>                               | °F              | 176          | 176          | 176          |
| <b>Adjustable high limit (AHL) range space heating (steady state)</b> | °F              | 86-176       | 86-176       | 86-176       |
| <b>Boiler connections</b>   |                 |              |              |              |
| Gas valve connection  | NPTM            | ¾            | ¾            | ¾            |
| Boiler heating supply and return                                      | NPTM            | ¾            | ¾            | ¾            |
| <b>Vent connections<sup>1</sup></b>                                   |                 |              |              |              |
| 2-Pipe vent (PPS/CPVC) <sup>2</sup>                                   | Ø inches        | 2            | 2            | 2            |
| 2-Pipe intake (PPS/CPVC or PVC) <sup>2</sup>                          | Ø inches        | 2            | 2            | 2            |
| Coaxial   | Ø inches (mm)   | 2/4 (60/100) | 2/4 (60/100) | 2/4 (60/100) |

<sup>1</sup> For detailed information refer to the Vitodens Venting System Installation Instructions.

<sup>2</sup> If using CPVC, order adapter number 7134769

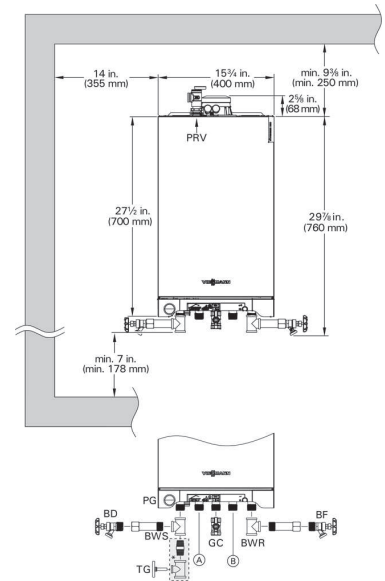


Technical information subject to change without notice.  
9450370 07/2020 Printed in USA

### Vitodens 100-W, B1HA series and B1KA Combi boiler

#### Legend:

- A Condensate drain, plastic hose Ø 1 in.
- B Boiler water supply, NPT ¼ in. (male thread)
- C Gas connection, NPT ¾ in. (male thread)
- D Boiler water return, NPT ¾ in. (male thread)
- E Combustion air opening for double pipe system
- F Combustion air opening for coaxial system
- G - For B1HA series, DHW tank heating supply, NPT ¾ in. (male thread)
- For B1KA combi, DHW, NPT ½ in. (male thread)
- H - For B1HA series, DHW tank heating return, NPT ¾ in. (male thread)
- For B1KA combi, DHW, NPT ½ in. (male thread)
- I Opening for pressure relief valve



#### Legend:

- (A) - DHW tank heating supply for B1HA boilers
- DHW for B1KA boiler
- (B) - DHW tank heating return for B1HA boilers
- DCW for B1KA boiler

- BWR Boiler water return
- BWS Boiler water supply
- BD Boiler drain
- BF Boiler fill
- GC Gas connection
- PRV Pressure relief valve
- PG Pressure gauge
- VC Venting connection
- TG Temperature gauge
- \* Field supplied

#### Standard boiler equipment includes

- + Wall-mount boiler and installation fittings
- + 30 psig relief valve
- + Pressure gauge
- + Gas shut-off valve
- + Two fill/drain valves
- + All mounting hardware
- + Outdoor temperature sensor
- + Tank temperature sensor (B1HA)
- + DHW 150 psi relief valve (B1KA)
- + Vent lengths up to 200'