Gas Condensing Technology

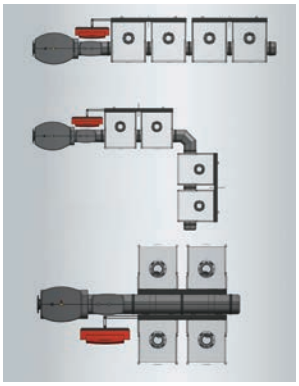
VITODENS® 200-W

Cascade Systems

Product not exactly as shown.

Vitodens 200-W Cascade Systems - 32 to 4240 MBH
Prefabricated Multiple-Boiler System (Vitodens 200-W, models 45 to 150)

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



The prefabricated distribution manifold is available in a variety of configurations: single-line, corner or back-to-back.

Performance and efficiency
The Vitodens 200 is one of the most efficient and powerful wall-mounted condensing boilers on the market. By itself, it is ideally suited for residential applications. But in a cascade system, the Vitodens 200 becomes a powerful commercial heating system capable of satisfying even the largest commercial heating loads.

Equipped with proven Viessmann technology, including the MatriX cylinder burner and Inox-Radial heat exchanger, the Vitodens 200 delivers outstanding performance. Plus, with the Lambda Pro® combustion management system, each Vitodens 200 in your cascade system will operate at maximum efficiency, reducing heating costs without compromising 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. A cascade system fires boilers as required to meet fluctuating heating demands; it maintains maximum efficiency at all times by precisely matching the load.

A cascade system can also prevent interruption of heating plant operation, with multiple boilers available as back-up.

Portable and convenient
The Vitodens 200 cascade system is your most flexible installation option for problematic retrofits and small spaces. The prefabricated distribution manifold is floor-mounted (five to eight boilers back-to-back only), and is available in a variety of configurations: single-line, corner or back-to-back for ultimate installation flexibility.

With all components individually packaged, the cascade system is ideal for small or difficult-to-access boiler rooms or facilities with narrow halls or stairwells.

Easy installation
The Low-Loss Header increases operational efficiency of a cascade system by ensuring low return temperatures and acting as a hydraulic break – decoupling boilers and system circuits. Right or left-mount, the Low-Loss Header allows the cascade to be installed in a variety of configurations. The system's prefabricated distribution manifold allows boilers to be easily field assembled, wired and piped prior to system installation.

Controlling your cascade
Get the best performance from your multiple-boiler installations with the new Vitotronic 300-K, MW2C Cascade Control. This advanced digital boiler and system control with outdoor reset function ensures reliable and efficient performance of a cascade system with up to eight boilers (with Vitotronic 200, HO1B controls).

The Vitotronic 300-K control will modulate, stage and rotate boilers, regulate boiler water and common supply temperature, and with optional extension module, can control up to two heating circuits with mixing valves. Plus, set-up is fast and easy with its plug-and-play function for automatic recognition and adaptation of sensors and system accessories.

Vitodens 200-W, B2HA

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

Product not exactly as shown.

Vitodens 200-W Cascade Systems

1. Vitodens 200-W, B2HA / B2HB gas condensing boiler
2. Low-Loss Header
3. Vitotronic 300-K, MW2C Cascade Control
4. Circulators, check valves
5. Distribution manifold

Working with your BMS

The Vitotronic 300-K control also allows seamless integration into Building Management Systems (BMS) without additional gateway (limited access). Use of commercially available LON equipment for further inputs and outputs is optional (coupling via standard LON tools up to three heating circuits).

Specifications

- For two to eight Vitodens 200, B2HA / B2HB boilers in a single cascade
- The distribution manifolds are checked for proper alignment and have a maximum operating pressure of 80 psig
- Vitotronic 300-K control with outdoor reset function and integration with BMS (additional components required)
- All ANSI flange connections

Benefits at a glance

- Outstanding performance with Vitodens 200 and Lambda Pro combustion management system
- Maximum efficiency with high turndown that precisely matches load
- Simplified boiler system layout as manifold and Low-Loss Header provide complete primary loop
- Multiple boilers secure against interruption of heating plant operation
- Boilers easily assembled and hydraulically connected prior to installation with prefabricated manifold
- Flexible installation with multiple manifold configurations: floor standing, corner, or back-to-back
- Right or left-mount Low-Loss Header acts as hydraulic break and helps eliminate air and debris
- Ideal for small or difficult-to-access boiler rooms or facilities with narrow halls and stairwells
- All serviceable components easily accessible from the front
- No pipe or manifold sizing required
- Offered in packaged system
- Common venting up to four boilers‡

‡ In accordance with local codes and regulations of authorities having jurisdiction.

VIESMANN

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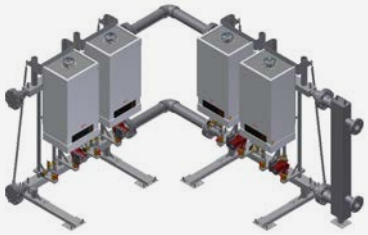
Technical Data

Vitodens 200-W Cascade Systems

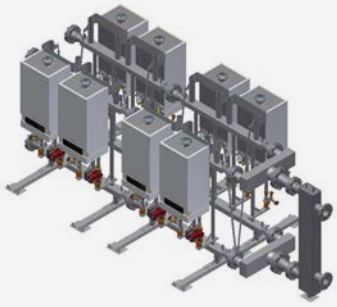
		B2HB		B2HA				
Model		**160**	**199**	**285**	**311**	**352**	**399**	**530**
Minimum Input (single boiler)*	MBH	32	32	71	71	71	113	113
Maximum Input (single boiler)*	MBH	160	199	285	311	352	399	530
Minimum Input (multiple of 8)*	MBH	32	32	71	71	71	113	113
Maximum Input (multiple of 8)*	MBH	1280	1592	2280	2488	2816	3192	4240
Weight (single boiler)	lbs	210	210	194	194	194	298	298

* Input based on natural gas

2-boiler
cascade system



4-boiler cascade system
in corner configuration



8-boiler cascade system
in back-to-back configuration

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ENERGY STAR

Technical information subject to change without notice.
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