

Oil/Gas Heating Technology

**VITOROND® 200, VD2/VD2A**

**VIESSMANN®**  
climate of innovation®



**Heating Systems** ◀  
Industrial Systems  
Refrigeration Systems



*Product may not look exactly as illustrated.*

# Efficient. Durable. Reliable.

## The **VITOROND 200**

The Vitorond 200 boiler is a reliable, durable and efficient commercial heating solution. The boiler's sectional, triple-pass design, combined with a special Eutectoplex heat exchanger surface ensures easy installation, economical energy consumption, high operational reliability and a long service life. The bottom line: fast investment recovery through maximum savings in fuel and maintenance costs.

### Efficient

Reduce operating expenditures by up to 50% by modernizing with a Viessmann Vitorond 200 boiler. Featuring efficiencies of up to 85.5% for gas and 88.1% for oil, this highmass, high-volume cast iron boiler stores thermal energy and eliminates inefficient system cycling. The Vitorond 200 boiler's triple-pass design, combined with heat-resistant steel turbulators placed in each flue gas passageway, ensures maximum heat transfer throughout the cast iron block. Superior insulation minimizes standby losses and maximizes energy and cost savings. Design-matched Viessmann system controls ensure that the entire heating system is consistently operating at maximum efficiency.



**Eliminate energy waste with Viessmann heating technology**



**Vitorond 200 cast iron section**

### Durable and reliable

The cast iron sections of the Vitorond 200 consist of a homogeneous, special gray cast iron. The resulting uniform heat transfer eliminates stress fractures. The material, shape and geometry of the sections, combined with production methods at the factory, eliminate any inherent stresses. These factors combine to achieve the utmost in product reliability and serve to minimize repair bills and overall lifecycle cost.



### Easy handling and simple installation

The Vitorond 200 boiler may be delivered in individual sections and assembled in the field using a draw tool provided by Viessmann. This allows easy transportation into the most difficult-to-access boiler rooms. Upon request, the Vitorond 200 boiler up to size VD2A-270 can be delivered fully assembled. In addition, the Vitorond 200 accommodates a left- or right-swing combustion chamber door to best suit any boiler room layout and multiple boiler installations.

### Reduced emissions

The triple-pass design of the boiler's heat exchanger, ensures that the time the flue gases remain under a high reaction temperature is minimized. As a result, NOx emissions are lowered, minimizing environmental impact.



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# No-compromise commercial heating

## The benefits at a glance:

- **Efficient and reliable operation.**

Modulated boiler water temperatures help conserve energy by closely matching system output to actual demand.

Viessmann system controls ensure consistent, maximum system efficiency.

Combustion efficiency up to:

85.5% for gas and 88.1% for oil.

Thermal efficiency up to: 85.4% for gas and 88% for oil.

- **High operational reliability and a long service life** are achieved by

the special Eutectoplex gray cast iron heat exchanger. A uniform heat transfer and controlled water flow, together with inherent characteristics of the cast iron sections eliminate stress fractures and extend the lifecycle of the boiler.

- **Problem-free transport** into difficult-to-access boiler rooms thanks to sectional construction and low weight. The Fastfix system facilitates a quick and easy installation.

- **Low environmental impact** thanks to low-emission combustion achieved by the boiler's triple-pass design.

- **Problem-free cleaning access** facilitated by a hinged left- or rightswing combustion chamber door providing easy access to all three flue gas passageways from the front of the boiler, reducing side clearance.

- **The VD2A Series features reduced investment cost** with new Therm-Control integrated low-temperature protection logic and return water distribution system for a simplified design and system integration. Low temperature protection package no longer required.

- **Comprehensive standard equipment** saves valuable time in installation and sourcing of product. The supply and return header system is pre-built for left or right connections and positions components properly.

- **Consistent and reliable DHW supply** through integration with Viessmann indirect-fired stainless steel domestic hot water tanks.

- Boilers, controls, domestic hot water tanks, and heating system components are design-matched to work together. **All components are compatible** and are therefore quickly and easily installed.

- Standardized LON-BUS enables **easy communication with building management systems.**

- **Maximum quality assurance.** All components bearing the Viessmann name are designed and manufactured at company-owned production facilities.



**Design, production, logistics – everything under one roof**



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# Progressive heating technology is system technology

Every single component of our heating technology follows the Vitotec building block principle. This guarantees a smooth and efficient functioning of the entire heating system. All boilers, burners and controls harmonize perfectly, while saving you energy and money.

## Viessmann system controls

Viessmann-designed system controls ensure efficient and reliable operation of the entire heating system. These controls are design-matched to work with other system componentry to maximize energy and cost savings. Modulating water temperatures help to further conserve energy by closely matching output to actual demand, while ensuring a comfortable living environment.

## Custom control panels

Factory-designed and assembled Viessmann custom control panels manage the operation of multiple boilers, multiple heating circuits and domestic hot water production. Viessmann custom design guarantees a perfect fit with other heating system components and ensures that none of their energy and cost-saving features are compromised.

## DHW storage tanks

Save up to 50% of your operating cost compared to conventional direct-fired hot water production.

- Viessmann Vitocell 300 stainless steel domestic hot water tanks allow worry-free, extremely efficient, reliable and economical DHW production. The stainless steel interior ensures maximum corrosion protection, operational reliability and a long service life.
- Viessmann Vitocell 100 steel domestic hot water tanks with Ceraprotect enamel for reliable and economical DHW production. The Vitocell 100 DHW tank's special enamel, as well as a magnesium anode protect against corrosion, while its highly effective insulation minimizes standby losses. This translates into increased profits thanks to reduced energy and maintenance costs.

## Multiple DHW tanks

For systems requiring larger amounts of domestic hot water, several Vitocell DHW tanks can be combined into tank batteries. A consistent and abundant supply of domestic hot water is thereby guaranteed all day long.

## Did you know?

Viessmann offers:

- A commercial projects department offering technical advice.
- Ongoing post-sale customer support.
- Custom control solutions and full integration with building management systems.
- Remote system monitoring over the Internet.
- Free commercial project evaluation program to calculate fuel savings, R.O.I., pay-back analysis and emission reductions.
- Professional start-ups for all commercial installations.
- Educational seminars through our Viessmann Academy.



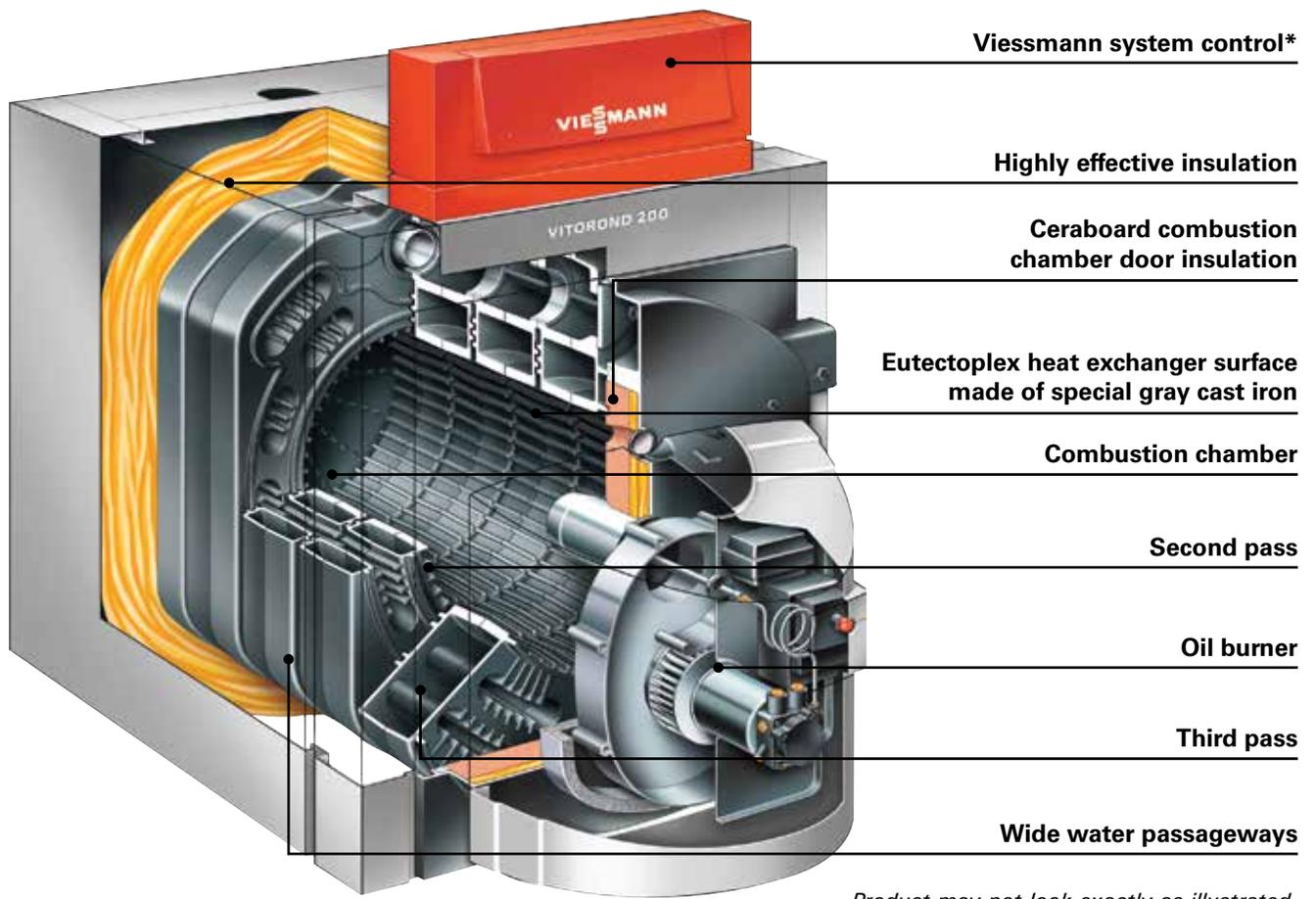
**Professional advice is never far away**



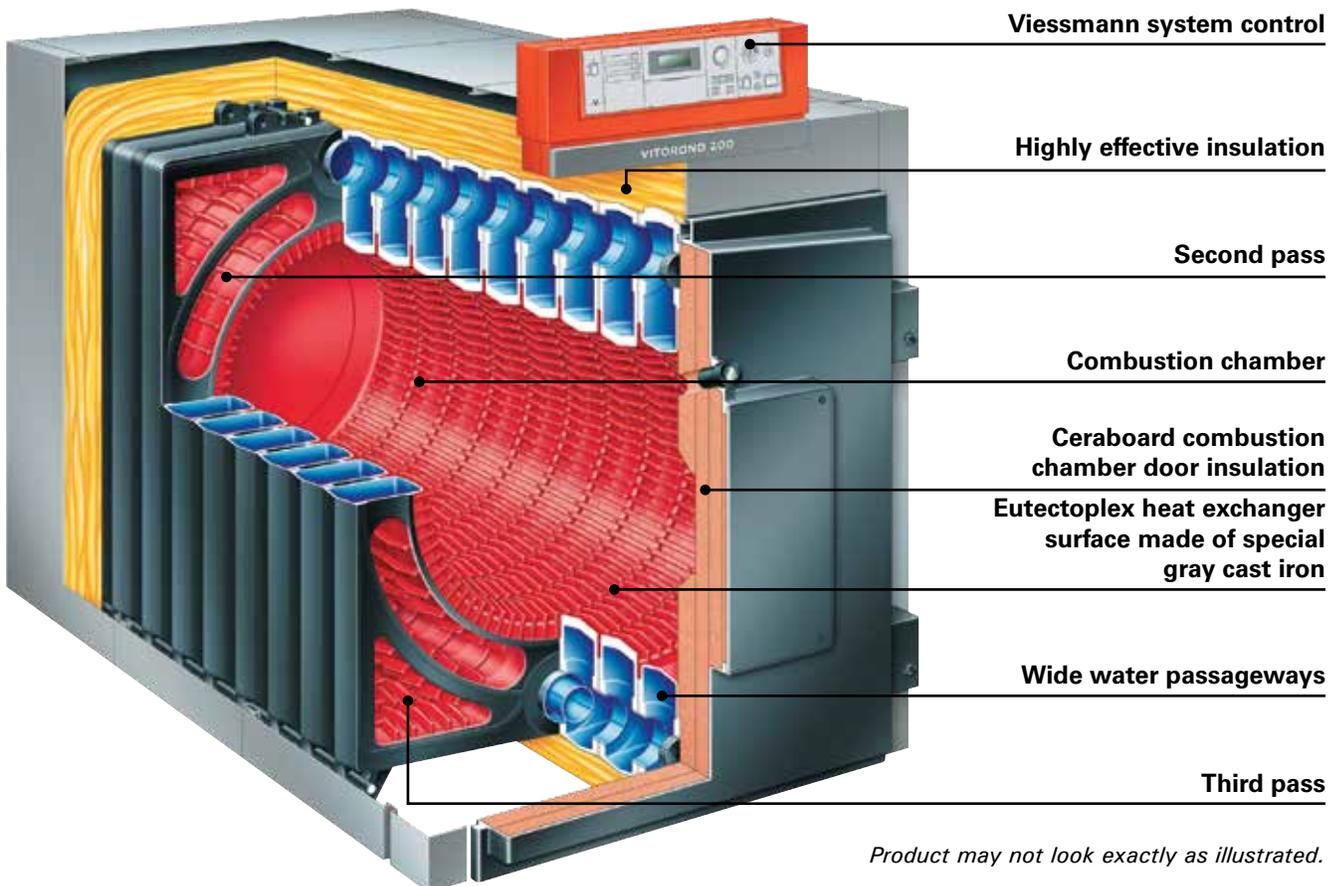
**Hands-on training at our demonstration showrooms**



**Keeping up-to-date is easy with Viessmann Academy seminars**



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<b>VITOROND 200</b>	<b>Model</b>	<b>VD2A</b>	<b>125</b>	<b>160</b>	<b>195</b>	<b>230</b>	<b>270</b>
<b>Rated input (oil)</b>	MBH		490	628	765	902	1059
		kW	144	184	224	264	310
<b>Rated input (gas)</b>	MBH		508	650	792	934	1096
		kW	149	190	232	274	321
<b>Rated output (oil/gas)†</b>	MBH		433	553	672	792	928
		kW	127	162	197	233	273
<b>Combustion efficiency (oil) %</b>			87.7	87.3	87.3	87.3	87.3
<b>Combustion efficiency (gas) %</b>			84.7	84.8	84.8	84.8	84.8
<b>Thermal efficiency (oil) %</b>			87.9	87.6	87.4	87.3	87.2
<b>Thermal efficiency (gas) %</b>			85.2	85.1	84.8	84.8	84.7
<b>Dimensions (with insulation jacket)</b>	Total Length	inches	35 ¾	42 ¼	49	55 ½	62 ¼
		mm	905	1075	1240	1410	1580
	Total Width*	inches	40 ½	40 ½	40 ½	40 ½	40 ½
		mm	1030	1030	1030	1030	1030
	Total Height*††	inches	58 ½	58 ½	58 ½	58 ½	58 ½
mm		1485	1485	1485	1485	1485	
<b>Weight (incl. insulation, and control)</b>	lbs		1201	1441	1675	1874	2127
	kg		545	655	760	850	965
<b>Boiler water content</b>	USG		32	41	49	57	66
	ltrs		122	154	186	217	249

\*Not as illustrated. Boiler control mounted on right or left boiler side panel. †† With supply header.

<b>VITOROND 200</b>	<b>Model</b>	<b>VD2-</b>	<b>320</b>	<b>380</b>	<b>440</b>	<b>500</b>	<b>560</b>	<b>630</b>
<b>Rated input (oil)</b>	MBH		1255	1490	1726	1961	2196	2471
		kW	368	436	506	574	643	724
<b>Rated input (gas)</b>	MBH		1300	1544	1787	2031	2275	2559
		kW	381	452	523	595	666	750
<b>Rated output (oil/gas)†</b>	MBH		1110	1319	1526	1732	1941	2183
		kW	325	387	447	508	569	640
<b>Combustion efficiency (oil) %</b>			88.1	88.0	88.0	87.9	87.8	87.8
<b>Combustion efficiency (gas) %</b>			85.5	85.4	85.4	85.3	85.2	85.1
<b>Thermal efficiency (oil) %</b>			88.0	88.0	88.0	88.0	88.0	87.9
<b>Thermal efficiency (gas) %</b>			85.4	85.4	85.4	85.3	85.3	85.3
<b>Total dimensions (with insulation jacket)</b>	Total Length	inches	58 ¾	63 ¾	68 ¾	73 ¾	78 ¾	83 ¾
		mm	1490	1620	1750	1870	2000	2130
	Total Width*	inches	49 ¼	49 ¼	49 ¼	49 ¼	49 ¼	49 ¼
		mm	1250	1250	1250	1250	1250	1250
	Total Height*	inches	50 ¾	50 ¾	50 ¾	50 ¾	50 ¾	50 ¾
mm		1290	1290	1290	1290	1290	1290	
<b>Weight (incl. insulation, burner and control)</b>	lbs		3924	4299	4652	4982	5335	5666
	kg		1780	1950	2110	2260	2420	2570
<b>Boiler water content</b>	USG		65	73	80	87	95	102
	ltrs		247	275	303	331	359	387

<b>Model</b>	<b>VD2-</b>	<b>700</b>	<b>780</b>	<b>860</b>	<b>950</b>	<b>1080</b>	
<b>Rated input (oil)</b>	MBH		2745	3059	3373	3727	4236
		kW	804	896	988	1091	1241
<b>Rated input (gas)</b>	MBH		2843	3168	3493	3860	4387
		kW	833	928	1023	1130	1285
<b>Rated output (oil/gas)†</b>	MBH		2425	2699	2976	3135	3738
		kW	711	791	872	919	1095
<b>Combustion efficiency (oil) %</b>			87.7	87.6	87.5	87.4	87.3
<b>Combustion efficiency (gas) %</b>			85.1	85.0	84.9	84.8	84.6
<b>Thermal efficiency (oil) %</b>			87.9	87.9	87.8	87.8	87.8
<b>Thermal efficiency (gas) %</b>			85.3	85.2	85.2	85.2	85.2
<b>Total dimensions (with insulation jacket)</b>	Total Length	inches	89.0	93 ¾	98 ¾	104	108 ¾
		mm	2260	2380	2510	2640	2760
	Total Width*	inches	49 ¼	49 ¼	49 ¼	49 ¼	49 ¼
		mm	1250	1250	1250	1250	1250
	Total Height*	inches	50 ¾	50 ¾	50 ¾	50 ¾	50 ¾
mm		1290	1290	1290	1290	1290	
<b>Weight (incl. insulation, burner and control)</b>	lbs		6019	6349	6702	7070	7429
	kg		2730	2880	3040	3210	3370
<b>Boiler water content</b>	USG		110	117	124	132	139
	ltrs		415	443	471	499	527

\*Dimensions with center-mounted NR2 control. See Technical Data Manual for dimensions with Dekamatik or KR control.

† Output ratings are based on the IBR BTS-2000 "method to determine efficiency of commercial space heating boilers".

**VIESMANN**



# Viessmann - The Company

## Viessmann - climate of innovation

The Viessmann brand promise concisely expresses all that we hope to achieve. It is our key brand message and, together with our brand label, an identifying feature throughout the world. "Climate of innovation" is a promise on three levels: It is a commitment to a culture of innovation. It is a promise of high product utilization and, at the same time, an obligation to protect the environment.

## Comprehensive range of products and services for all fuel types

Viessmann is one of the leading international manufacturers of heating systems and, with its comprehensive range of products and services, offers individual solutions of efficient systems for all applications and fuel types. As an environmental pioneer, the company has been supplying particularly efficient and clean heating systems for decades.

## Acting in a sustainable manner

For Viessmann, to take responsibility, means a commitment to act in a sustainable way. This means bringing ecology, economy and social responsibility into harmony with each other, ensuring that current needs are satisfied without limiting the basis for life for the generations to come.

## Efficiency program

With our efficiency program, Viessmann shows that the political goals set for 2020 with regard to climate and energy can already be achieved today with commercially available technology.

This program demonstrates:

- Environmental protection
- Efficiency with resources
- Securing manufacturing sites for the future

As a result, fossil fuels have been cut by 40 percent and CO<sub>2</sub> emissions reduced by a third.



**Deutscher Nachhaltigkeitspreis**

Deutschlands nachhaltigste Marke 2013

Viessmann won the German Sustainability Award 2013 for its commitment to climate protection and efficient use of resources.



For the particularly efficient utilization of energy through the innovative heat recovery center at the company's main site in Allendorf/Eder, Viessmann was rewarded with the Energy Efficiency Award 2010.

## Viessmann Werke GmbH & Co. KG

### Company details

- Established in: 1917
- Employees: 11,500
- Group turnover: 2.2 billion Euro
- Export share: 56 percent
- 22 factories in 11 countries
- Operating in 74 countries
- 120 sales offices worldwide

### Performance spectrum

- Condensing technology for oil and gas
- Solar thermal systems
- Heat pumps
- Wood combustion systems
- CHP modules
- Biogas plants
- Services

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