



TECHNOLOGY BROCHURE

Gas condensing technology

VITODENS

VITOCROSSAL

The next generation of heating systems

- More efficiency
- Lower emissions
- Straightforward operation
- Durable
- Digital and futureproof



simple
economical
clean
durable



When it comes to convenient heat generation with natural gas, Viessmann has various technologies to offer that can satisfy a wide range of demands: whether for new build or modernisation, a flat or a detached house, or even for major housing developments.

All our condensing boilers meet the requirements for efficient condensing technology. 98 percent or more of the energy spent is converted into heat. With such unbeatably high levels of efficiency, everyone who uses a gas condensing boiler is making a positive contribution to protecting the climate and the environment.

Every new heating system, nowadays, should also be able to work with solar collectors, to benefit from free solar energy. All Viessmann boilers are set up for this right now.





6

6 SAVE ENERGY AND PROTECT THE CLIMATE

Modernising a heating system is worthwhile and makes a positive contribution towards protecting the climate and saving fossil fuels.



10

10 GAS CONDENSING TECHNOLOGY

Viessmann gas condensing boilers offer maximum energy utilisation with frugal levels of consumption.



38

38 PRECISELY TAILORED SYSTEM COMPONENTS

System technology from Viessmann makes for a perfect new heating system, from the control unit and Vitocell DHW cylinder to high grade solar technology for cost effective DHW heating and central heating backup.



40

40 SERVICE THAT COVERS EVERY ASPECT OF HEATING

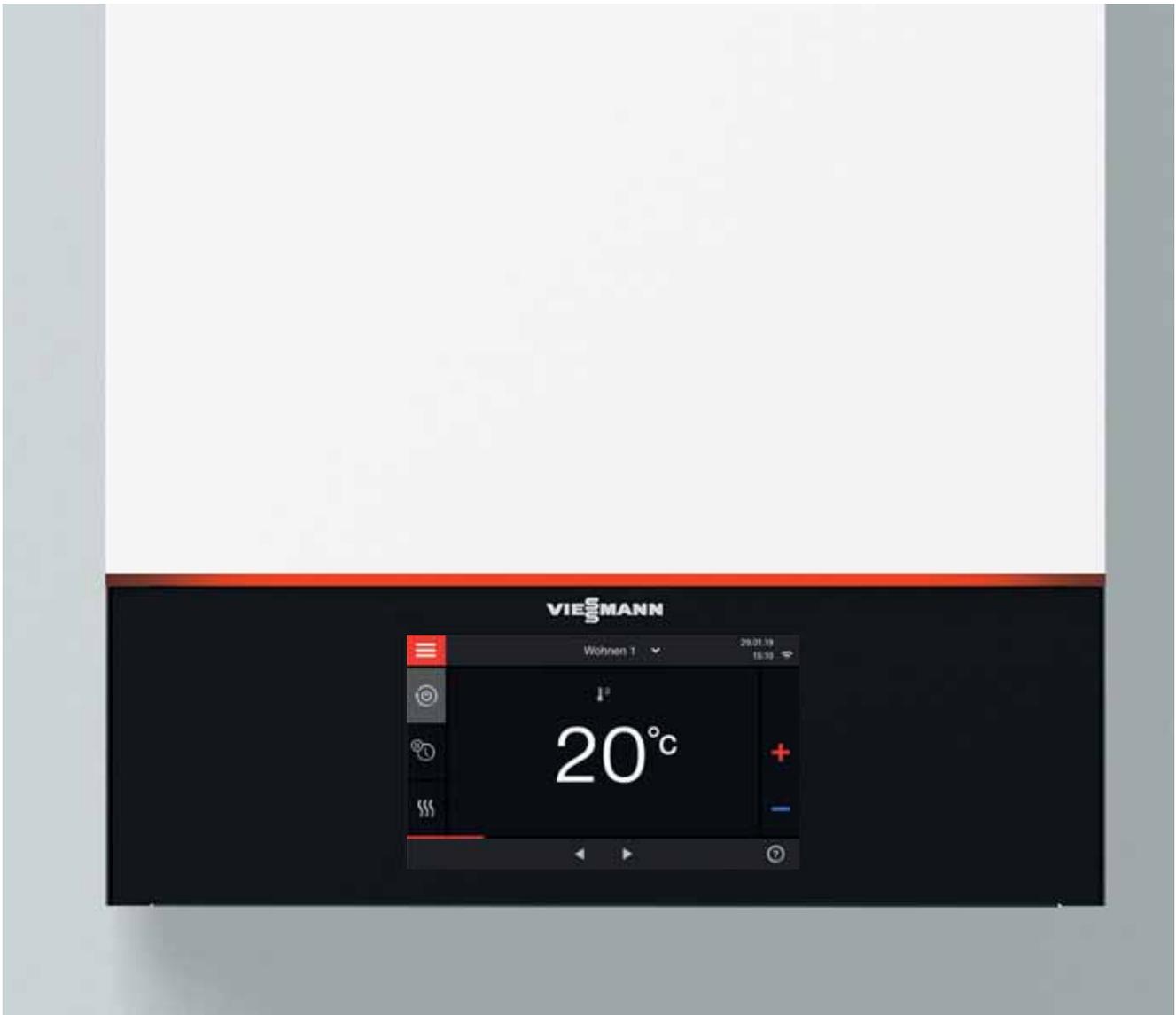
Viessmann trade partners can tell you all you need to know about tailor-made heating technology, available subsidies and finance options, without obligation and free of charge.

42 THE COMPANY

The power of innovation: a family business for three generations, Viessmann offers state of the art technology and takes its responsibilities seriously.



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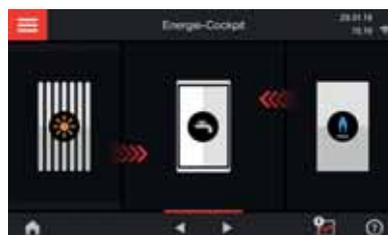


All wall mounted and floorstanding Vitodens gas condensing boilers in the 300 series are equipped with a colour touchscreen.



Explore the app in advance – no need to register!

Simply download the ViCare app and tap "Discover ViCare" on the app's start screen – and off you go, with no need to actually be connected to the boiler.



The energy cockpit produces a graphical representation of the energy flows



Digital pressure gauge for all Vitodens boilers in the 300 series

The quick and easy way to save energy – and enjoy greater convenience and reassurance



SAFETY

Warmth and reassurance

- + Green for go – see at a glance whether everything is OK
- + Be informed about a pending service
- + Direct access to the saved address of the contractor



ECONOMY

Simply set your preferred temperature – save energy costs when you're not at home

- + Straightforward, convenient operation of the heating system
- + Record your daily routine and automatically save on energy costs
- + Set standard functions at the tap of a button on your smartphone



SUPPORT

A direct link to the contractor – just in case

- + Simply enter the contact details of the contractor
- + Quick and effective assistance – the contractor has all of the important information
- + All-inclusive carefree safety and maintenance package

The ViCare app offers new possibilities for controlling heating systems via the internet. The design of the ViCare graphic interface has been kept simple, enabling completely intuitive heating system operation.

Save energy automatically

The system is designed to control one heating circuit. You can set the required room temperature via the touchscreen, and switch between standard and party mode ("I'm home longer") with a single tap.

When leaving the house ("I'm away"), it takes just one command to reduce the heating system to a lower temperature and therefore save energy. Anyone wanting to program different switching times for each day will appreciate the assistant function. A separate button on the start screen shows the current outside

temperature and, with just one tap, the temperature history over the last few days.

System status at a glance

Green for go – the user can see at a glance whether their heating system is working as it should. Yellow lets you know about a pending service and red automatically offers to contact the contractor.

This requires consent from the system user, which can be granted within the app with just two taps. The connection to the trade partner's software is then established and they can view the system data, in order to provide their customer with quick and efficient support.

Vitocconnect internet interface

Vitocconnect is the interface between the boiler and ViCare (in the absence of built-in WiFi). It is not only compatible with new Viessmann heating systems, but is also available for many existing appliances. It is connected directly via a cable. A plug-in power supply unit is included in the standard delivery. A small accessory, measuring only 10 x 10 cm is available for wall mounting.

Connect the module to the internet and register via plug & play. Simply scan the supplied QR code using a smartphone. Installation and commissioning is then usually completed in just a few minutes.

5 year guarantee*

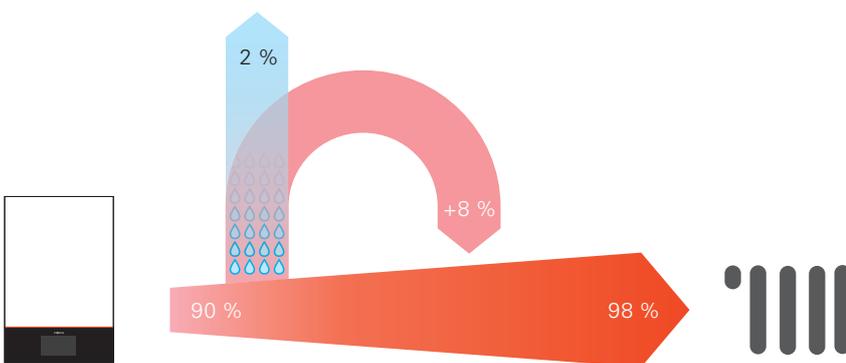
with system web connection/connectivity

* For all conditions, see www.viessmann.de/garantie

More effective and economical with lower emissions – advanced gas condensing technology from Viessmann



Viessmann works continually to develop new, environmentally responsible solutions, resulting in eco-friendly, cost effective and efficient heating systems.



How condensing technology works: Viessmann gas boilers and condensing technology turn up to 98 percent of the energy spent into heat. Through the condensation of water vapour contained in flue gas, additional heat is released which is returned to the heating system. This improves efficiency, cuts heating bills and reduces the environmental impact.

Replacing old boilers saves up to 35 percent on energy bills

Good reasons for modernising heating systems using efficient gas condensing technology

In Germany alone, there are still around two million heating systems in use today that are more than 25 years old. Their owners are often completely unaware of how much money they are wasting unnecessarily on energy, which is pointlessly burned up and goes out of the chimney as unused heat. Furthermore, these old systems have an impact on our climate through unnecessary CO₂ emissions which contribute to global warming.

By replacing these boilers with highly efficient condensing boilers, consumers can save a lot of energy – up to 35 percent when used alongside solar technology. This would translate into ten percent of Germany's total energy needs, with annual CO₂ emissions simultaneously being reduced by 54 million tonnes.

Central heating backup with solar technology

Free energy delivered by the sun is still not used often enough for central heating backup and DHW heating. For modernisation projects, combining a heating system or new boiler with a solar thermal system should be a given.

Saving energy and money with condensing technology

With conventional heating technology, hot flue gases escape up the chimney unused. Condensing technology uses the heat latent in these gases and turns almost all of it into heating energy.



Cost-benefit analysis for your home

The Viessmann Building Energy Economy Check provides all the answers to key questions about modernising a heating system. Only a few details need to be entered via a PC or tablet.

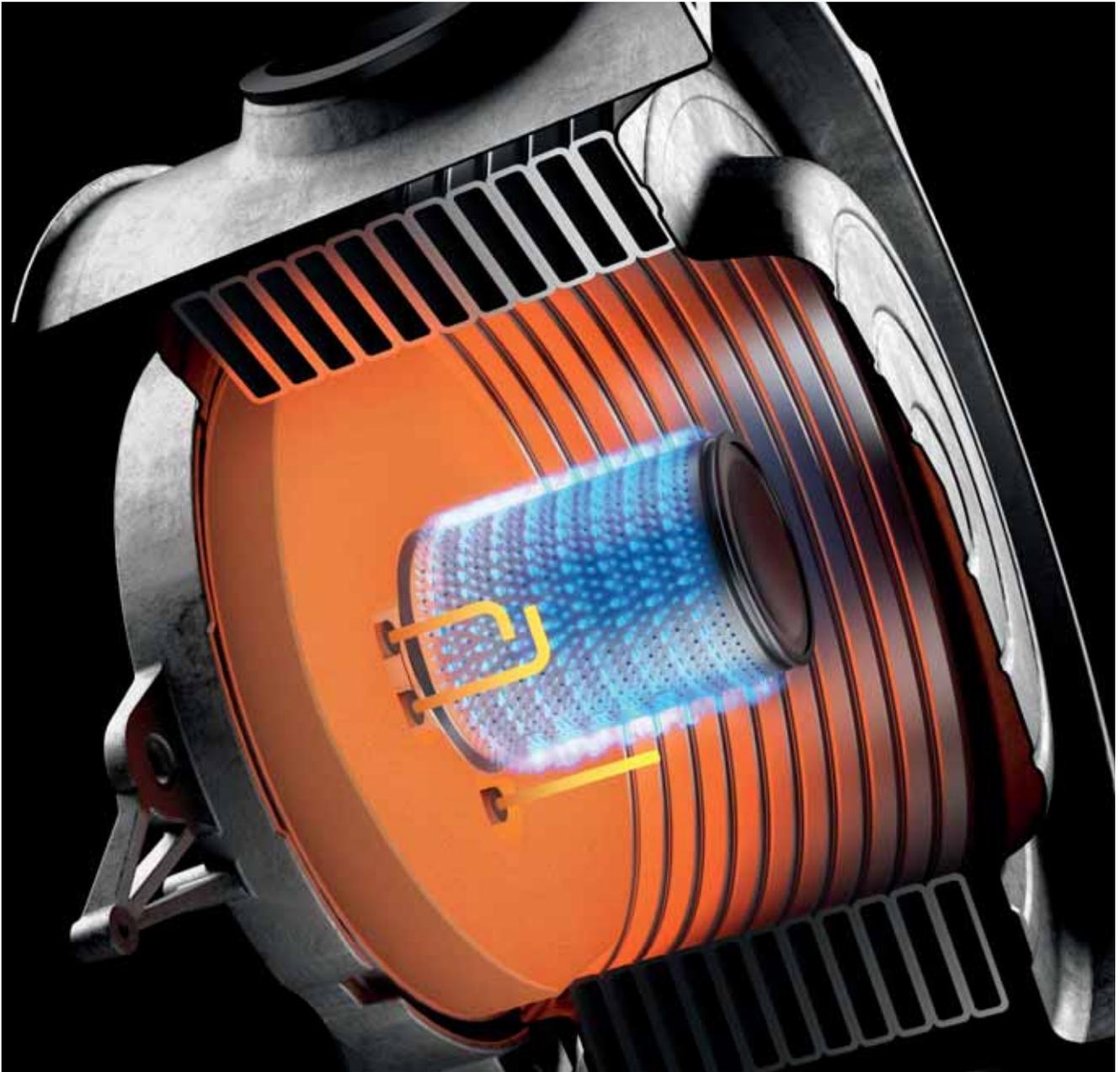
To do this, Viessmann equips its condensing boilers with stainless steel Inox-Radial heat exchangers. These cool the flue gases before they are routed into the chimney, so that the water vapour they contain is deliberately condensed. The additional heat released is transferred to the heating system.

With this technology, condensing boilers convert up to 98 percent of the fuel into heat, making them particularly energy efficient. This function not only saves valuable energy, but also protects the environment through significantly reduced CO₂ emissions.

www.check-energiesparen.de

Building Energy Economy Check
online at

www.check-energiesparen.de



Matrix-Plus burner

A milestone in heating technology – the highly environmentally responsible Matrix gas burner for the Vitodens 300 series

Environmentally responsible and energy efficient technology from Viessmann sets the standard

Over the 100 plus years that Viessmann has been in business, the company has regularly set new milestones in the development of highly advanced heating technology.

Right from the start, Viessmann has been one of the leading suppliers of heating equipment. Ongoing innovation has raised the efficiency in converting energy into heat to the limits of that which is currently technically possible. At the same time, we have been able to drastically reduce energy consumption and CO₂ emissions of our boilers.

MatriX-Plus burner milestone

With the MatriX-Plus burner in the Vitodens 300 series, high energy efficiency and heating convenience are assured. Combined with the stainless steel Inox-Radial heat exchanger, this technology reduces heating bills and minimises harmful emissions, with no need for compromises.

The Lambda Pro Control Plus combustion controller makes Viessmann gas condensing boilers futureproof. They adapt automatically to various types of gas and can even operate with partial biogas mixtures or LPG.



Inox-Radial heat exchanger

The proven Inox-Radial heat exchanger is also used for the new heat cell around the MatriX-Plus burner.

Stainless steel heat exchanger

All Viessmann gas condensing boilers feature a stainless steel heat exchanger. This technology brings with it an extremely high efficiency rate of 98 percent and exceptionally reliable and efficient operation during its long service life. Viessmann guarantees stainless steel heat exchangers up to 150 kW for ten years against leaks resulting from corrosion.

Award-winning design

For Viessmann, top technology and an attractive design go hand in hand. In recent years, the company has received more than 40 significant design awards from all over the world for its products. Viessmann boilers have won the renowned Red Dot Design Award twenty times.

10 year guarantee*

on stainless steel heat exchangers for oil or gas condensing boilers up to 150 kW

* For conditions and product overview, see www.viessmann.de/garantie



The new Vitodens 3xx range
The next generation of heating systems

DESIGN PLUS
powered by: **ISH**



Gas condensing boiler range

		Heating	Integral DHW cylinder	Integral DHW cylinder with solar connection	7" colour touchscreen	Page
	VITODENS 300-W Wall mounted gas condensing boiler 1.9 to 32 kW	■			■	14
	VITODENS 333-F Gas condensing storage combi boiler 1.9 to 32 kW	■	■ Stainless steel		■	18
	VITODENS 343-F Gas condensing storage combi boiler 1.9 to 19 kW	■		■ Stainless steel	■	22
	VITODENS 200-W Wall mounted gas condensing boiler System boiler: 2.4 to 150 kW Combi boiler: 4.5 to 35 kW	■	■ Combi boiler			26
	VITODENS 222-W Gas condensing storage combi boiler 2.4 to 35 kW	■	■ Stainless steel			29
	VITODENS 222-F Gas condensing storage combi boiler 2.4 to 35 kW	■	■ Enamel coating			30
	VITODENS 242-F Gas condensing storage combi boiler 2.4 to 26 kW	■		■ Enamel coating		31
	VITOCROSSAL 300 Gas condensing boiler 2.6 to 60 kW	■				33



The Vitodens 300 series meets the highest standards of convenient heat supply.

With the new electronic platform, the appliance is now even more efficient and economical.

With output ratings from 1.9 to 32 kW, the Vitodens 300 series of gas condensing boilers are designed primarily for new build with low energy demand:

Vitodens 300-W

The flagship model of wall mounted gas condensing boilers.

Vitodens 333-F

The compact, floorstanding alternative with integral stainless steel loading cylinder.

Vitodens 343-F

Prepared for direct connection to a solar thermal system – saves up to 50 percent of the energy that would otherwise be required for DHW heating.

Economical and efficient

The Lambda Pro Control Plus combustion controller adjusts automatically to the available gas type. Users benefit from a longer inspection interval of three years, meaning lower costs for flue gas inspection and cleaning. The power saving high efficiency circulation pumps ensure low electricity bills, with consumption reduced by up to 70 percent compared with conventional pumps.

5 year guarantee

with system web connection/connectivity

For all conditions, see www.viessmann.de/garantie



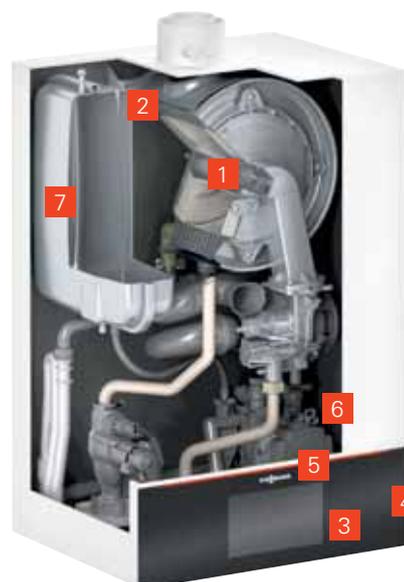
Convenient control via app

TAKE ADVANTAGE OF THESE BENEFITS

- + Particularly straightforward, intuitive operation and integral WiFi interface
- + High operational reliability thanks to integral Lambda Pro Control Plus combustion controller
- + Greater efficiency and less nitrogen oxide with the new MatriX-Plus burner
- + All consumption figures at a glance with the energy cockpit
- + Fluorescent light guide means you always know if everything is working properly



The new generation of heating systems. More efficiency, lower emissions, simple operation. Futureproof, durable and digital. Vitodens 300-W sets the standard for the future.



VITODENS 300-W

- 1 MatriX-Plus burner with
Lambda Pro Control Plus combustion controller
- 2 Inox-Radial heat exchanger
- 3 Electronic platform
- 4 Internet inside
- 5 Light guide
- 6 High efficiency pump
- 7 Expansion vessel (10 litres)

10 year guarantee

on stainless steel heat exchangers for oil or gas condensing boilers up to 150 kW

For all conditions, see
www.viessmann.de/garantie

The Vitodens 300-W is an intelligent energy centre which meets the highest standards for convenient heat supply. With its advanced, functional design and matt surface with a clear layout, it blends effortlessly into any living environment.

**Integral WiFi interface:
heating convenience goes
digital**

The integral WiFi interface links the wall mounted gas condensing boiler directly to the internet, allowing easy access to networking and digital services as required. The ViCare app makes the appliance even easier to operate, with all the heating functions at your fingertips. In the event of a problem arising, the Service app informs the heating contractor directly, who can then act quickly to remedy it. A further benefit is that Viessmann offers a five year guarantee covering the whole system as soon as the connection is set up.

**Energy cockpit:
straightforward settings and
operation increase efficiency**

How easy are the settings and operation? These are among the key criteria to consider when deciding on a new heating system. The Vitodens 300-W is exceptionally easy to operate. It can be controlled very easily and intuitively from a smartphone or PC, as well as directly using the large, height-adjustable colour touchscreen. Plain text and a graphic display lead you through all the menu items. And with the energy cockpit, you can see all the energy consumption figures at a glance.

**Light guide indicates the
current operating state**

The light guide is a fluorescent LED light strip that extends across the whole width of the boiler. It provides the system user with real time information on correct operation of the heating system.

**MatriX-Plus burner:
the heart of your
heating system**

Among the outstanding benefits of the new MatriX-Plus burner are its efficient operation, quiet running and low emissions. The special stainless steel MatriX surface is resistant to high temperatures, which ensures reliable performance and a long service life.

**Lambda Pro Control Plus:
automatic combustion
control cuts costs**

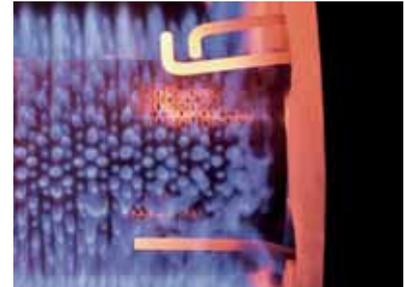
Automatic monitoring of combustion quality compensates for fluctuating gas qualities and prolongs the flue gas inspection intervals to three years. This ensures efficiency all year round and saves on maintenance costs.

**Stainless steel Inox-Radial:
efficient and durable**

Stainless steel makes all the difference. The corrosion-resistant stainless steel Inox-Radial heat exchanger is at the heart of the Vitodens 300-W. It converts the consumed energy into heat particularly efficiently – with almost no losses, and with practically unbeatable efficiency of 98 percent. In addition, the particularly durable, high grade stainless steel ensures reliability.

Lambda Pro Control Plus

- + Adjustment to gas quality
- + Consistently high energy efficiency
- + Low maintenance costs
- + Three year inspection intervals



MatriX-Plus gas burner:
the new milestone in burner technology



The Inox-Radial heat exchanger is self-cleaning.

PRODUCT FEATURES

- Standard seasonal efficiency [to DIN]: 98 % (H_s) [gross cv]
- Modulation range down to 1:17
- Low cycling frequency, even when little heat is drawn off
- Durable and efficient thanks to Inox-Radial heat exchanger
- MatriX-Plus burner with a long service life thanks to stainless steel MatriX
- Lambda Pro Control Plus combustion controller for all gas types
- Quiet operation thanks to low fan speed
- Extremely convenient to operate using the 7" colour touchscreen or ViCare app
- Integral WiFi interface for internet connectivity
- Energy cockpit to visualise energy generation and consumption
- Suitable for connection to a solar thermal system
- Energy efficiency class: A



The ideal combination for a new generation of heating systems.
 Efficient gas condensing technology combined with high
 DHW convenience. Easy to operate, durable and digital.



VITODENS 333-F

- 1 MatriX-Plus burner with
Lambda Pro Control Plus combustion controller
- 2 Inox-Radial heat exchanger
- 3 Electronic platform
- 4 Internet inside
- 5 Light guide
- 6 Expansion vessel (18 litres)
- 7 High efficiency pump
- 8 Stainless steel loading cylinder
(100 litre capacity)

The Vitodens 333-F is an intelligent energy centre which meets the highest standards for convenient heat supply.

With its 100 litre stainless steel loading cylinder, it offers maximum DHW convenience – in a single compact appliance.



The new generation of futureproof heating systems. Efficient heat supply, high DHW convenience, set up for connection with energy saving solar technology. Plus: easy to operate, durable and digital. This is heating technology at its most advanced.

Futureproof with solar integration

The Vitodens 343-F is already set up for combination with Vitosol solar collectors for DHW heating. The solar indirect coil is already integrated into the DHW cylinder. By using free solar thermal energy, up to 60 percent of the energy that would otherwise be needed for DHW heating can be saved.



VITODENS 343-F

- 1 MatriX-Plus burner with
Lambda Pro Control Plus combustion controller
- 2 Inox-Radial heat exchanger
- 3 Electronic platform
- 4 Internet inside
- 5 Light guide
- 6 Expansion vessel (18 litres)
- 7 High efficiency pump
- 8 Stainless steel DHW cylinder (170 litre capacity)
with solar indirect coil



The Vitodens 200 series of gas condensing boilers are efficient and affordable solutions for low and high heat demands.

A gas condensing boiler from Viessmann's Vitodens 200 series means you're getting everything right. All appliances feature a stainless steel Inox-Radial heat exchanger. It is reliable and its self-cleaning surface guarantees years of highly efficient service utilising condensing technology.

Vitodens 200-W

A particularly compact wall mounted appliance for installation in a kitchen cupboard, utility room or bathroom.

Vitodens 222-W

Space saving wall mounted solution with integral loading cylinder for high DHW convenience.

Vitodens 222-F

The floorstanding option with integral loading cylinder. Different types available for normal and hard water areas.

Vitodens 242-F

For direct connection to a solar thermal system, this gas condensing boiler makes it possible to heat DHW at virtually no cost.

Extremely easy to service

Even in terms of maintenance and service, you'll save plenty of time with Viessmann gas condensing boilers. All components are accessible from the front.



5 year guarantee*

with system web connection/connectivity

* For all conditions, see www.viessmann.de/garantie

TAKE ADVANTAGE OF THESE BENEFITS

- + Exemplary price/performance ratio
- + Standard seasonal efficiency [to DIN] up to 98 % (H_g) [gross cv]
- + Durable and efficient thanks to Inox-Radial heat exchanger
- + Modulating MatriX cylinder burner with a long service life thanks to stainless steel MatriX gauze – resistant to high temperature loads
- + Easy to operate Vitotronic control unit with plain text and graphic display
- + Web-enabled through Vitoconnect (accessories) for operation and service via Viessmann apps
- + Power saving high efficiency pump
- + Lambda Pro Control Plus combustion controller for all gas types – saves on costs by extending the inspection interval to three years [in Germany]
- + Quiet operation thanks to low fan speed



The Vitodens 200-W wall mounted gas condensing boiler from Viessmann is impressive, with an exemplary price/performance ratio, excellent heating and DHW convenience, compact dimensions and a timeless design. It is equally recommended for new build and for modernisation of an existing system.

Up to 98 percent efficiency

Up to 98 percent of the energy spent is converted into heat, reducing heating bills and protecting the environment.

Robust burner with a long service life

The MatriX cylinder burner is characterised by a long service life thanks to its stainless steel MatriX gauze. The integral Lambda Pro Control combustion controller automatically adjusts combustion to fluctuating gas types. This ensures consistently high energy efficiency and offers security for the future in liberalised gas markets and where biogas is added to natural gas.

Available as a system or combi boiler

The Vitodens 200-W is available either as a system boiler with separate DHW heating, or, for outputs of up to 35 kW, as a combi boiler with integral instantaneous water heater. This ensures that DHW and central heating are available without taking up too much space.

Cascades up to 594 kW

The Vitodens 200-W wall mounted gas condensing boiler can also be used in a multi boiler system with up to four appliances. The total output can then be as high as 594 kW.



VITODENS 200-W 2.4 to 150 kW

- 1 Innox radial heat exchanger
- 2 MatriX cylinder burner and Lambda Pro Control combustion controller
- 3 Vitotronic control unit
- 4 Expansion vessel
- 5 Stainless steel plate heat exchanger (combi boiler)

VITODENS 200-W
VITODENS 222-W

The integral stainless steel loading cylinder in the Vitodens 222-W, with its 46 litre capacity, is particularly worth noting. This volume is comparable to a 150 litre DHW cylinder where hot water availability is concerned. The water heated to the required temperature in the heat exchanger (instantaneous water heater) continually charges the loading cylinder and is, therefore, immediately available for further drawings.

All system components such as the loading cylinder, expansion vessel, pumps and safety valves are factory-fitted, reducing the time spent on installation on site.

VITODENS 222-W
2.4 to 35 kW

- 1 Inox radial heat exchanger
- 2 MatriX cylinder burner with
Lambda Pro Control Plus combustion controller
- 3 Vitotronic control unit
- 4 Expansion vessel
- 5 High efficiency pump
- 6 Stainless steel loading cylinder





Vitodens 222-F (type B2TB)
with enamelled loading cylinder

VITODENS 222-F
2.4 to 35 kW with loading cylinder
2.4 to 26 kW with DHW cylinder
with internal indirect coil

- 1** Inox radial heat exchanger
- 2** MatriX cylinder burner with
Lambda Pro Control Plus combustion controller
- 3** Vitotronic control unit
- 4** Expansion vessel
- 5** High efficiency pump
- 6** Enamelled loading cylinder

**The alternative for different
water hardness areas**

The Vitodens 222-F is available for different water qualities:
For areas with normal water hardness (< 20 °dH) with enamelled loading cylinder (100 or 130 litre capacity) and for hard water areas (> 20 °dH) with internally heated, enamelled DHW cylinder.



For state of the art heating with condensing and solar technology in detached houses, the Vitodens 242-F is an extremely energy efficient, environmentally responsible and advanced heating system. With a footprint of just 0.4 m², this storage combi boiler needs only a small amount of space, so can fit into any recess. High DHW convenience is guaranteed by a dual mode loading cylinder with 170 litre capacity and solar indirect coil.

Futureproof through solar integration

The Vitodens 242-F is fully prepared at the factory for combination with Vitosol solar collectors (or an existing system), either now or in the future. The control module for regulating the solar thermal system is already integrated; the solar yield is displayed graphically by the

device. All functions are matched to one another and have been factory tested.

Over 50 percent of the energy needed for DHW heating can be saved with this appliance, using free solar thermal energy.

VITODENS 242-F 2.4 to 26 kW

- 1** Inox radial heat exchanger
- 2** MatriX cylinder burner with Lambda Pro Control Plus combustion controller
- 3** Vitotronic control unit
- 4** Expansion vessel
- 5** Heating and solar circuit pump
- 6** Enamelled loading cylinder
- 7** Solar circuit fill valve

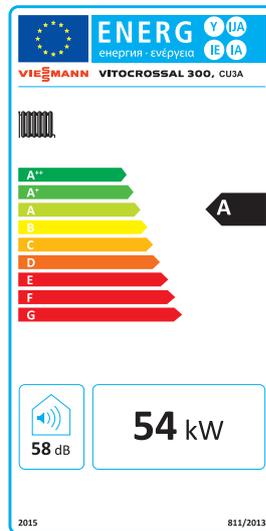




This gas condensing boiler really does have it all – its exceptional efficiency and clean combustion are particularly impressive.

Today, using a condensing boiler in new buildings is standard practice, because the boiler and heating system can be perfectly matched right from the start. A condensing boiler brings the most benefit when it is installed in heating systems with low system temperatures. Condensing technology can save up to 30 percent of heating costs, even in modernisation projects.

The Vitocrossal 300 is a leading product amongst floorstanding gas condensing boilers. The combination of the Inox-Crossal heat exchanger and the MatriX gas burner represents a milestone in Viessmann heating technology. Exceptional efficiency saves heating costs whilst minimising emissions.



Energy efficiency label for the Vitocrossal 300, CU3A (54 kW)

Energy efficiency class: A
In combination with solar collectors **A+**

TAKE ADVANTAGE OF THESE BENEFITS

- + Compact gas condensing boiler
- + Output: 2.6 to 60 kW
- + Standard seasonal efficiency [to DIN]: up to 98 % (H_g) [gross cv]
- + Stainless steel Inox-Crossal heat exchanger for efficient utilisation of condensing technology
- + Smooth stainless steel surfaces create self-cleaning effect
- + Modulating MatriX gas burner with a wide modulation range down to 20 % for particularly quiet, economical and environmentally responsible operation
- + Lambda Pro Control combustion controller for all gas types – reduces fees by extending the inspection interval to three years [in Germany]
- + Excellent controllability and reliable heat transfer through wide water galleries and large water content
- + Easy to use Vitotronic 200 control unit with plain text and graphic display
- + Room sealed or open flue operation
- + Web-enabled through Vitoconnect (accessories) for operation and service via Viessmann apps

**VITOCROSSAL 300**

- 1** Vitotronic 200 digital boiler control unit
- 2** Water-cooled stainless steel combustion chamber
- 3** Modulating Matrix gas burner and Lambda Pro Control combustion controller
- 4** Inox-Crossal stainless steel heat exchanger
- 5** Flue gas collector with condensate drain pipe

The Vitocrossal 300 gas condensing boiler is the right solution for any application – including heating in apartment blocks, public buildings and commercial premises.

Advanced condensing technology

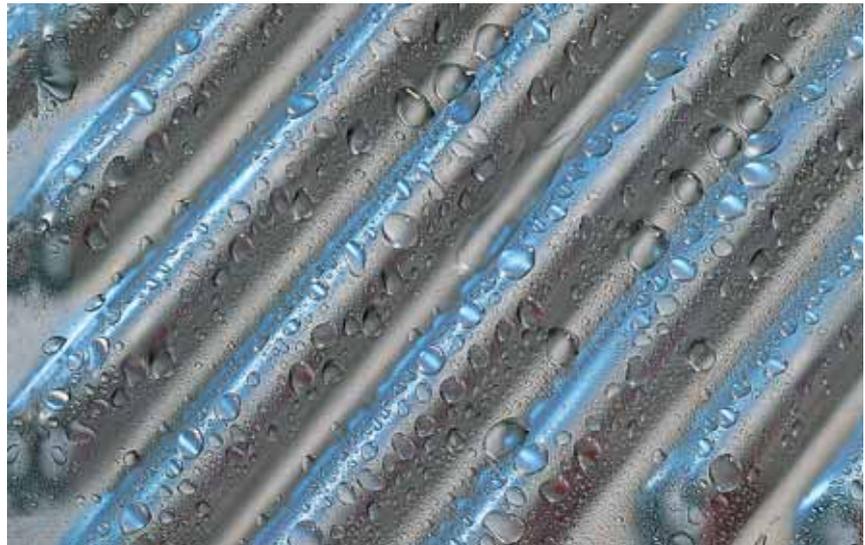
The stainless steel Inox-Crossal heat exchanger offers ideal conditions for utilising condensing technology. Its smooth stainless steel heating surface allows any condensate created to simply run off downwards, producing a constant self-cleaning effect. Benefits include a consistent level of efficiency, a long service life and low maintenance outlay.

Intensive utilisation of the hot gases

The vertical heat exchanger surfaces in the Vitocrossal 300 make particularly intensive use of the condensation energy in the hot gases, with up to 98 percent of the energy spent being converted into heat.

Convenient Vitotronic control unit

Contractors and users benefit equally from the easy to use Vitotronic control unit, as the structure of its menu is logical and clearly laid out, and the backlighting offers good contrast and is quick and easy to read. If in doubt, a help function informs users of the next steps to perform. The graphic user interface also displays heating curves and solar yield.



Inox-Crossal heat exchanger made from stainless steel

Intelligent combustion control

The proven MatriX gas burner with Lambda Pro Control combustion controller automatically adjusts to fluctuating gas qualities. This technology guarantees a consistently high standard seasonal efficiency [to DIN] of 98 percent – even for natural gas and LPG.



Vitotronic 200 control unit with clear user prompts

Room sealed operation

Room sealed operation allows flexible installation of the Vitocrossal 300 inside the building.

Vitoconnect internet interface

Vitoconnect is the interface between the Vitocrossal 300 and ViCare. It is not only compatible with new Viessmann heating systems, but is also available for many existing appliances. It is connected directly via a cable. A plug-in power supply unit is included in the standard delivery. A small accessory, measuring only 10 x 10 cm, is available for wall mounting.

5 year guarantee*

with system web connection/connectivity

* For all conditions, see www.viessmann.de/garantie

Specification



Wall mounted gas condensing boiler

VITODENS 300-W

Rated heating output range					
50/30 °C	kW	1.9 – 11.0	1.9 – 19.0	1.9 – 25.0	1.9 – 32.0
80/60 °C	kW	1.7 – 10.1	1.7 – 17.4	1.7 – 22.9	1.7 – 29.3
Dimensions					
Length	mm	360	360	360	360
Width	mm	450	450	450	450
Height	mm	700	700	700	700
Flue gas connection					
	Ø mm	60	60	60	60
Ventilation air connection					
	Ø mm	100	100	100	100
DHW output					
	kW	17.4	17.4	22.9	29.3
Energy efficiency class					
	h	A	A	A	A

The appliances are tested and approved for natural gas and LPG to EN 15502.



Gas condensing storage combi boiler

VITODENS 333-F

Rated heating output range					
50/30 °C	kW	1.9 – 11.0	1.9 – 19.0	1.9 – 25.0	1.9 – 32.0
80/60 °C	kW	1.7 – 10.1	1.7 – 17.4	1.7 – 22.9	1.7 – 29.3
Dimensions					
Length	mm	595	595	595	595
Width	mm	600	600	600	600
Height	mm	1400	1400	1400	1400
Weight					
	kg	100	100	100	100
Cylinder capacity					
	l	100	100	100	100
Initial DHW output					
	l/10 min	177	187	207	230
Flue gas connection					
	Ø mm	60	60	60	60
Ventilation air connection					
	Ø mm	100	100	100	100
Continuous DHW output					
	kW	17.4	21.7	28.4	33.3
Energy efficiency class					
	h	A	A	A	A
	w	A	A	A	A

The appliances are tested and approved for natural gas and LPG to EN 15502-1.
Initial output for DHW heating from 10 to 45 °C.



Gas condensing storage combi boiler with solar cylinder

VITODENS 343-F

Rated heating output range					
50/30 °C	kW		1.9 – 11.0		1.9 – 19.0
80/60 °C	kW		1.7 – 10.1		1.7 – 17.4
Dimensions					
Length	mm		595		595
Width	mm		600		600
Height	mm		1800		1800
Weight					
	kg		151		151
Cylinder capacity					
	l		170		170
Initial DHW output					
	l/10 min		173		182
Flue gas connection					
	Ø mm		60		60
Ventilation air connection					
	Ø mm		100		100
Continuous DHW output					
	kW		17.6		22.1
Energy efficiency class					
	h		A		A
	w		A		A

The appliances are tested and approved for natural gas and LPG to EN 15502-1.
Initial output for DHW heating from 10 to 45 °C.



Wall mounted gas condensing boiler

VITODENS 200-W

Type		Gas combi boiler		Gas system boiler			
Rated heating output range							
50/30 °C	kW	4.5 – 26.0	4.5 – 35.0	2.4 – 13.0	2.4 – 19.0	4.5 – 26.0	4.5 – 35.0
80/60 °C	kW	4.1 – 24.1	4.1 – 32.5	2.2 – 12.1	2.2 – 17.6	4.1 – 24.1	4.1 – 32.5
Dimensions							
Length	mm	375	375	375	375	375	375
Width	mm	450	450	450	450	450	450
Height	mm	800	800	800	800	800	800
Weight	kg	40	45	37	37	39	41
DHW heating	kW	29.3	33.5	16.0	17.2	23.7	31.7
Energy efficiency class	h w	A –	A A	A –	A –	A –	A –

Type		Gas system boiler					
Rated heating output range							
50/30 °C	kW	12.0 – 49.0	12.0 – 60.0	20.0 – 80.0	20.0 – 99.0	32.0 – 120.0	32.0 – 150.0
80/60 °C	kW	10.9 – 44.5	10.9 – 54.4	18.2 – 72.6	18.2 – 90.0	29.1 – 109.1	29.1 – 136.0
Dimensions							
Length	mm	380	380	530	530	690	690
Width	mm	480	480	480	480	600	600
Height	mm	850	850	850	850	900	900
Weight	kg	65	65	83	83	130	130
Energy efficiency class	h w	A –	A –	– –	– –	– –	– –



Wall mounted gas condensing boiler

VITODENS 222-W

Type					
Rated heating output range					
50/30 °C	kW	2.4 – 13.0	2.4 – 19.0	4.5 – 26.0	4.5 – 35.0
80/60 °C	kW	2.2 – 12.1	2.2 – 17.6	4.1 – 24.1	4.1 – 32.5
Dimensions					
Length	mm	480	480	480	480
Width	mm	600	600	600	600
Height	mm	900	900	900	900
Weight	kg	60	60	63	67
DHW loading cylinder	litres	46	46	46	46
DHW output	kW	17.2	17.2	29.3	33.6
Energy efficiency class	h w	A A	A A	A A	A A

Specification



Gas condensing storage combi boiler

VITODENS 222-F

Type	B2TB			
Rated heating output range				
50/30 °C	kW	2.4 – 13.0	2.4 – 19.0	4.5 – 26.0
80/60 °C	kW	2.2 – 12.1	2.2 – 17.6	4.1 – 24.1
Dimensions				
Length	mm	595	595	595
Width	mm	600	600	600
Height	mm	1425	1425	1625
Weight	kg	129	129	132
Loading cylinder	l	100	100	100
DHW cylinder with internal indirect coil	l	–	–	–
DHW output	kW	17.2	17.2	29.3
Energy efficiency class	h	A	A	A
	w	A	A	A

Type	B2SB			
Rated heating output range				
50/30 °C	kW	2.4 – 13.0	2.4 – 19.0	4.5 – 26.0
80/60 °C	kW	2.2 – 12.1	2.2 – 17.6	4.1 – 24.1
Dimensions				
Length	mm	595	595	595
Width	mm	600	600	600
Height	mm	1625	1625	1625
Weight	kg	139	139	142
Loading cylinder	l	–	–	–
DHW cylinder with internal indirect coil	l	130	130	130
DHW output	kW	17.2	17.2	23.7
Energy efficiency class	h	A	A	A
	w	A	A	A



Gas condensing storage combi boiler with solar cylinder

VITODENS 242-F

Type	B2SB			
Rated heating output range				
50/30 °C	kW	2.4 – 13.0	2.4 – 19.0	4.5 – 26.0
80/60 °C	kW	2.2 – 12.1	2.2 – 17.6	4.1 – 24.1
Dimensions				
Length	mm	595	595	595
Width	mm	600	600	600
Height	mm	1875	1875	1875
Total weight	kg	161	161	165
Heat cell module	kg	42	42	46
Loading cylinder module	kg	95	95	95
Enamelled loading cylinder with solar indirect coil	l	170	170	170
DHW output	kW	17.2	17.2	29.3
Energy efficiency class*	h	A	A	A
	w	A	A	A

* In conjunction with solar collectors, a higher rating is achieved for the ErP system label.



Vitocrossal 300, type CU3A
gas condensing boiler

VITOCROSSAL 300

Rated heating output range							
50/30 °C	kW	2.6 – 13.0	2.6 – 19.0	5.2 – 26.0	7.0 – 35.0	12.0 – 45.0	12.0 – 60.0
80/60 °C	kW	2.4 – 12.0	2.4 – 17.5	4.7 – 24.0	6.3 – 32.3	10.9 – 41.6	10.9 – 55.5
Dimensions							
Length	mm	684	684	684	684	801	801
Width	mm	660	660	660	660	660	660
Height	mm	1562	1562	1562	1562	1562	1562
Weight							
	kg	119	119	122	125	155	160
Heat exchanger capacity							
	l	53	53	51	49	71	71
Flue gas connection							
	Ø mm	80	80	80	80	110	110
Ventilation air connection							
	Ø mm	125	125	125	125	150	150
Energy efficiency class							
	h	A	A	A	A	A	A



System technology ensures reliable and economical operation. The convenient controls and perfectly matching Viessmann system components offer maximum reliability, flexibility and efficiency.

"The whole is greater than the sum of its parts." In accordance with this philosophy, Viessmann does not simply supply individual heating equipment components that meet the high Viessmann standards for quality, reliability and effectiveness. In addition, all products are part of a matching overall concept, where all components complement one another.

After all, only perfect interaction between all system parts can draw out the maximum potential of our innovative leading technology.

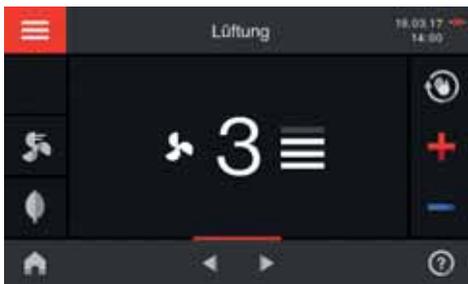
Viessmann system technology incorporates everything you need for a reliable and economical heating system: namely the control unit with wireless remote control and online

management using the ViCare app, powerful Vitocell DHW cylinders for the highest DHW convenience, and high grade photovoltaic systems.



CONNECTIVITY

With Vitoconnect* and a smartphone, the operation of your Viessmann heating system couldn't be easier. Heating systems can be controlled with the ViCare app (page 6/7). All apps are available for mobile devices running iOS or Android operating systems.



MECHANICAL VENTILATION SYSTEMS

Controlled mechanical ventilation systems with heat recovery continuously replenish the air in the living space for a healthy, comfortable environment and remove odours and noxious substances. They do so in an extremely energy efficient way.



SYSTEM ACCESSORIES

Radiators, expansion vessels, pipework systems, pumps, filters and valves – Vitoset offers the complete range of accessories for the Viessmann heating system.

* Only required for appliances without integral WiFi.



SOLAR THERMAL AND PHOTOVOLTAICS

Energy from the sun is free and solar thermal systems provide hot water for DHW heating and central heating backup. By installing a photovoltaic system, everyone can become their own electricity supplier and use the power they have generated on site.



DHW CYLINDERS

DHW convenience for every demand: Vitocell DHW cylinders are convenient solutions for supplying a household with hot water – the perfect complement to any new heat pump.



Discover more about the Viessmann radiator range



Find out more about Vitocell

With Viessmann trade partners, you're in good hands



At Viessmann, proximity to trade partners is the basis of the company's success. Everyone who chooses Viessmann heating technology benefits from their expertise.

Property developers and system users can receive advice and support regarding sales, installation and customer service exclusively via Viessmann trade partners, who complete regular training at the Viessmann Academy, and have an in-depth knowledge of the company's products.

Every system user benefits from the comprehensive service that all installation contractors offer as standard.

Examples of the service we provide

- Free, no-obligation and individual consultation, even on site
- Clear calculation of heating cost savings after modernisation of the heating system – including systems combined with solar collectors, of course
- Calculation of the payback period, after which the new heating system will have paid for itself through energy savings
- Calculation of the actual heat and DHW demand for the household or property
- Information about an economical combination of a new heating system with a solar thermal system for central heating backup and DHW heating
- Up to date information about public subsidy programmes that could help to finance a new heating system and a solar thermal system
- Support in applying for subsidies

Technology from Viessmann – subsidies from the public purse

You don't just save on running costs. Energy savings and environmentally responsible heating technology is also financially supported by local, regional and national bodies through various subsidies, as well as by power supply utilities [in Germany].

Current information can be found online at www.viessmann.de/foerderprogramme

or ask your trade partner.



Reliable and competent advice from Viessmann employees and contractors on site and at their offices

Attractive finance – invest now and save on heating costs immediately

With the Viessmann finance model, you can start saving straight away, and turn your plans into reality. The fast and reliable process, with no red tape, makes modernisation projects easier, allowing your financial planning to remain flexible. The particular advantage is that with Viessmann's favourable terms, savings on heating costs are generally significantly higher than finance costs.

Please note

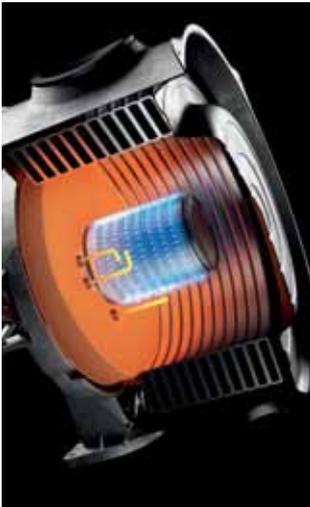
Applications for subsidies and finance must be made before the heating and/or solar thermal system is purchased. Subsidies and finance agreements cannot be arranged retrospectively.

Terms and conditions to shout about

If you invest now in a new heating system for your property, you may be eligible for an attractive finance package from Viessmann in conjunction with CreditPlus bank: just 3.99 percent* effective APR.



* Over 24 months



MatriX-Plus burner

Viessmann comprehensive range

- Boilers for oil or gas
- Combined heat and power generation
- Hybrid appliances
- Heat pumps
- Wood combustion technology
- Biogas production plants
- Biogas upgrading plants
- Solar thermal
- Photovoltaic
- Electric heating/DHW systems
- Refrigeration systems
- Accessories

Milestones of heating technology

As an environmental pioneer and technological trailblazer for the heating sector, Viessmann has been supplying exceptionally clean and efficient systems for heating, refrigeration and decentralised power generation for decades. Many of the company's developments are recognised as heating equipment milestones.

Sustainability in action

As a family business Viessmann takes the long view and places great value on acting responsibly; sustainability is firmly enshrined in the company's principles. For Viessmann, sustainability in action means striking a balance between economy, ecology and social responsibility throughout the company; meeting current needs without compromising the quality of life of future generations.

With its strategic sustainability project, Viessmann demonstrates at its own head office in Allendorf (Eder) that the energy and climate policy goals set by the German government for 2050 can in fact be achieved today with the help of commercially available technology.



We create living spaces
for generations to come.

Practical partnership

As part of its comprehensive range, Viessmann also offers a wide selection of complementary services. These services include a comprehensive training and further development programme for trade partners at the well equipped training facilities of the Viessmann Academy.

With its new digital services, Viessmann offers innovative solutions such as the operation and monitoring of heating systems by smartphone. Users benefit from greater reassurance and convenience, whilst contractors can keep a constant eye on the systems for which they are responsible.



Number 1 Trade Partner for the 15th consecutive time



Viessmann is a leading international manufacturer of efficient energy systems.

VISSMANN GROUP IN FIGURES

1917

— Viessmann was founded

12,000

— employees

2.5

— Group turnover in billions of euros

54

— export share in percent

23

— production companies in

12

— countries

120

— sales offices worldwide

74

— countries with agents and sales companies



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Your trade partner

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