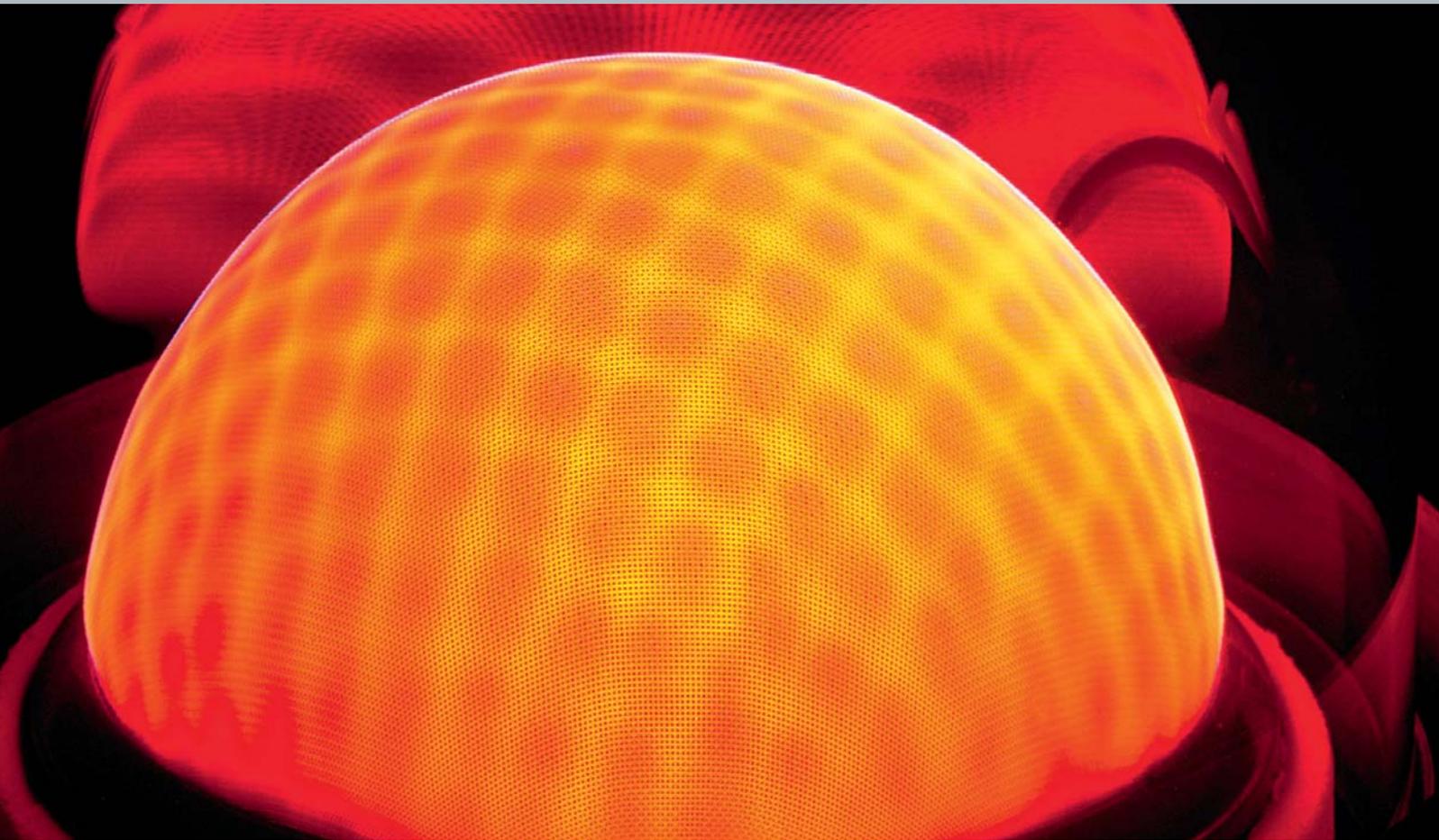


Heating with gas



Heating systems ◀

Industrial systems

Refrigeration systems



Heating with gas – always a clean affair

On the following pages you will find extensive information about the various technologies available to you today to generate heat using natural gas in your house or apartment.

By using a condensing boiler to convert natural gas into heat, you are making an active contribution towards protecting the climate and the environment, thanks to the boiler's unbeatably high efficiency of 98 percent.

Our gas condensing boilers come with the future built in. Thanks to the Lambda Pro Control combustion controller, our gas condensing boilers adjust automatically to all gas types – including biogas mixtures. As a result we are able to meet the many varied demands made of heating equipment across our product range – to protect our finite resources.

The fact that no fuel needs to be stored is also an argument in favour of a gas heating system – especially if you want to use that space for other purposes.

You can even use free solar energy as part of your new heating system. All boilers are designed for combination with Viessmann solar technology. Viessmann system technology guarantees that everything will fit together beautifully and work in harmony, putting you in control and meeting your every demand.

VIESMANN



About this brochure

The Viessmann gas condensing boiler range will fulfil your every demand for an efficient and economical heating system. This brochure contains information about our current boilers and plenty of other facts about accessories, service and finance packages.



Saving energy and protecting the climate

from page 6

Find out why it is worth modernising your heating system now, so you can make an active contribution towards protecting the climate and using less fossil fuel.



Gas condensing technology

from page 10

Gas condensing boilers offer optimum energy utilisation with frugal consumption, resulting in maximum savings for you!



A perfect match – system technology

from page 54

Viessmann system technology includes all the elements of a reliable heating system, from the Vitotronic control unit and Vitocell DHW cylinders to high grade solar technology for cost effective central heating backup, or photovoltaic modules for generating power.



Accessories – everything from a single source

from page 66

You can trust Viessmann quality when it comes to accessories, too. Our Vitoset program includes a wide range of radiators, thermostatic valves, and much more.



Service that covers every aspect of heating

from page 70

Make the most of our trade partners. They will tell you all you need to know about tailor-made heating technology, available subsidies and finance options, without obligation and free of charge.



Saving energy and protecting the climate

Viessmann is aware of its responsibilities for the sustained protection of the environment. Our company philosophy and products have been constructed with this duty in mind.



"Nothing is so good that it cannot be improved". This motto is also reflected in our company principles. Viessmann can rightfully claim to be the leader in quality and technology, and as such, aims to continually set new standards.

Of course, this applies in particular to the company's product range, which is consistently geared towards significantly lowering the consumption of fossil fuels and gradually replacing them with renewable sources of energy.

At around 40 percent, the heating market actually accounts for the largest proportion of energy consumption. The rest is shared by freight, personal transport and power generation, each accounting for 20 percent. These values can also be applied approximately to other industrial countries. Ever-rising energy costs mean that the emphasis is on reducing the consumption of fossil fuels as quickly as possible.

Condensing technology offers the greatest energy efficiency

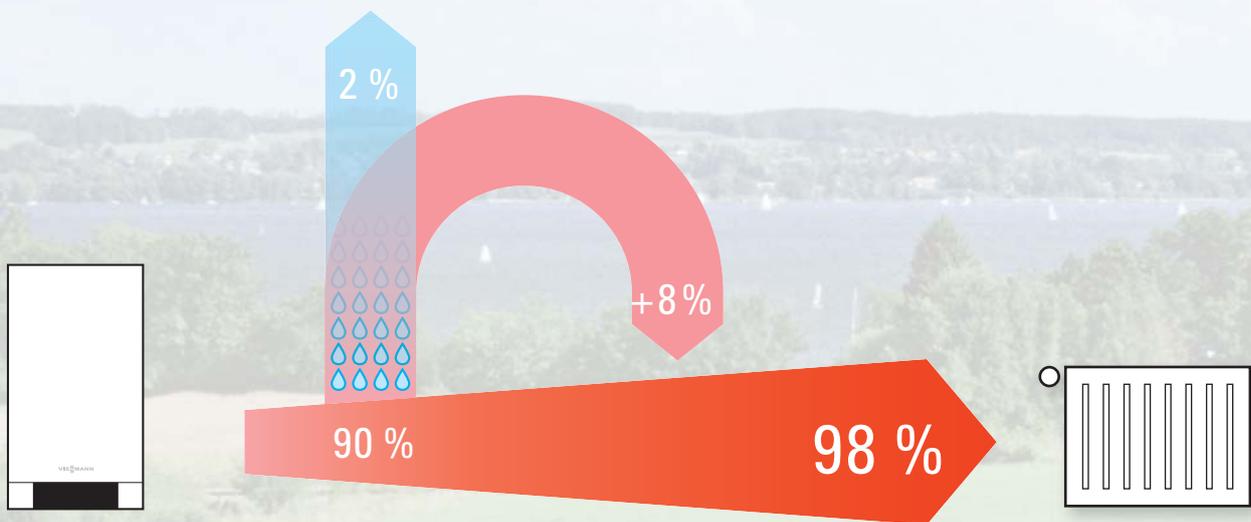
Taking the overall investment and current energy prices into consideration, condensing technology is the most economical alternative. Viessmann gas condensing boilers convert up to 98 percent of the natural gas used into heat. At the same time, condensing technology is also futureproof, as biofuels such as bio natural gas can already be added.

This is why you should invest today in advanced condensing technology. The savings you can make are considerable. Make an effective contribution towards the sustained protection of our climate by preventing unnecessary CO₂ emissions.

Viessmann has the right solution for you.

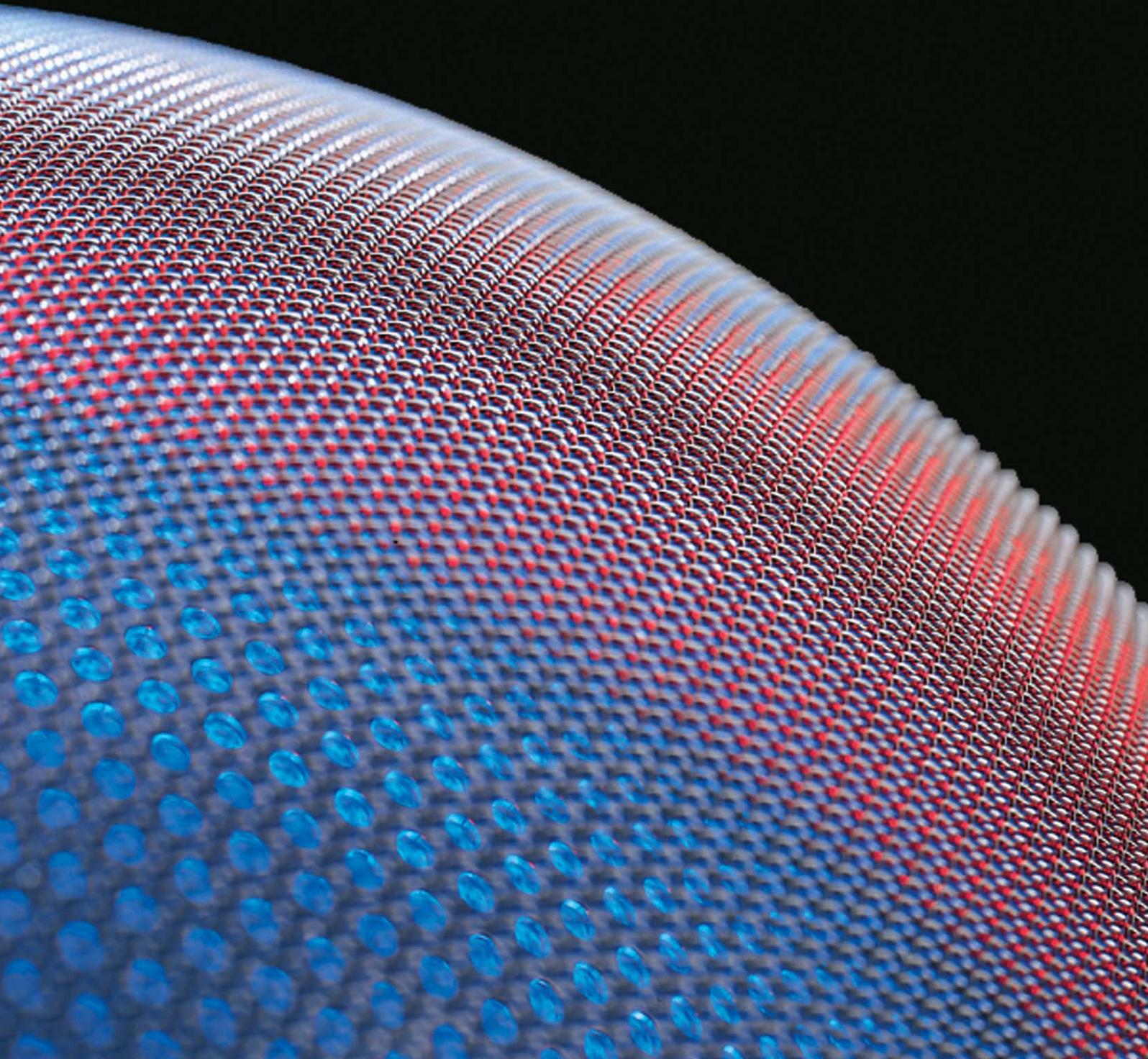
Viessmann offers energy efficient heating systems for oil, gas, solar, biomass and natural heat. The pictograms are designed to aid orientation when selecting a system.

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



How condensing technology works:

Viessmann boilers, with condensing technology, achieve an efficiency of up to 98 percent (relative to H_s [gross cvl]). Through the condensation of the water vapour contained in the flue gas, additional heat is extracted from the flue gas and returned to the heating system. This increases efficiency, lowers your heating bills and reduces environmental impact.



Viessmann sets standards

Over the 90 plus years that Viessmann has been in business, the company has regularly set milestones in the development of the most advanced heating technology.

Viessmann has been a pacemaker in the heating technology industry for decades. Through continual innovation, the efficiency achieved when converting energy into heat has been increased to the limit of that which is currently technically possible. At the same time, we have been able to drastically reduce the energy consumption and CO₂ emissions of our boilers.

The MatriX burner – a true milestone in heating technology

The stainless steel Inox-Radial heat exchanger combined with the MatriX gas burner ensure high energy efficiency and a high level of heating convenience for the long term. Furthermore, this technology reduces heating bills and effectively minimises emissions. Thanks to the Lambda Pro Control combustion controller, Viessmann gas condensing boilers are already designed to meet future standards, as they can be operated with different gas types and partial biogas mixtures.

Stainless steel heat exchanger

All Viessmann gas condensing boilers are now equipped with the stainless steel Inox-Radial heat exchanger. This indestructible technology brings with it an extremely high 98 percent efficiency and exceptionally safe and efficient operation during its long service life. Viessmann guarantees the Inox-Radial heat exchanger for ten years against leaks resulting from corrosion.

Award-winning design

At Viessmann, top technology and an attractive design go hand in hand. The company has received more than 40 significant design awards from all over the world for its products in recent years. Viessmann boilers have won the renowned red dot design award twenty times.



Viessmann wall mounted gas condensing boilers are characterised by their functional design.

Certified hydraulic balancing for subsidy programmes

The hydraulic balance is a must for the efficient operation of any heating system.

Viessmann's solution for this is Vitoflow – an automated process for all gas condensing boilers up to 150 kW. After the completion of the TÜV certified process, default settings for each radiator valve and the optimum pump speed and heating curve are recorded on a hardcopy printout. This provides the user with the necessary verification to be submitted with any application for KfW subsidies. The optimum set-up of your heating system also means up to 15 percent higher energy efficiency.



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

Gas condensing
technology



A milestone in innovative heating technology: the use of high-alloyed stainless steel. Applied here in our Inox-Radial heat exchanger.

	Heating	Integral DHW cylinder	Integral DHW cylinder with solar integration	5-inch colour touch-screen	Internet inside	Page
 <p>Vitosorp 200-F Gas adsorption heating appliance 1.8 to 16.7 kW</p>	X					14
 <p>Vitocrossal 300 Gas condensing boiler 2.6 to 60 kW</p>	X					18
 <p>Vitodens 300-W Wall mounted gas condensing boiler 1.9 to 35 kW</p>	X			X	X	22
 <p>Vitodens 333-F Gas condensing storage combi boiler 1.9 to 26 kW</p>	X	X Stainless steel		X	X	26
 <p>Vitodens 343-F Gas condensing storage combi boiler 1.9 to 19 kW</p>	X		X Stainless steel	X	X	30
 <p>Vitodens 200-W Wall mounted gas condensing boiler System boiler: 3.2 to 150 kW combi boiler: 5.2 to 35 kW</p>	X					34
 <p>Vitodens 222-W Gas condensing storage combi boiler 3.2 to 35 kW</p>	X	X Stainless steel				34
 <p>Vitodens 222-F Gas condensing storage combi boiler 3.2 to 35 kW</p>	X	X Enamel coating				38
 <p>Vitodens 242-F Gas condensing storage combi boiler 3.2 to 26 kW</p>	X		X Enamel coating			42
 <p>Vitosolar 300-F Gas condensing storage combi boiler with Vitodens 300-W: 1.9 to 35 kW Vitodens 200-W: 3.2 to 35 kW</p>	X X		X X	X	X	46 46

Gas adsorption
heating appliance

Vitosorp 200-F



VITOSORP 200-F

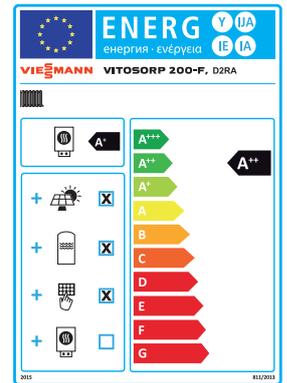
Combining a gas condensing boiler and gas adsorption heating appliance in a single unit reduces gas consumption by around 25 percent compared with conventional condensing technology.

The Vitosorp 200-F gas adsorption heating appliance combines the benefits of heating with gas and those of utilising natural heat. The combination of gas condensing boiler and adsorption heat pump reduces gas consumption by more than 25 percent, compared with conventional condensing technology. This saves fuel, protects the environment and makes heating with gas more efficient.

Proven condensing technology combined with geothermal or solar energy

The Vitosorp 200-F consists of a zeolite heat pump module and a gas condensing boiler. The heat pump utilises free geothermal or solar energy to cover the base load of a building's heating requirements. Geothermal collectors, geothermal probes or solar thermal systems can be chosen to tap into one of these sources of natural heat.

The gas condensing boiler fuels the heat pump process and covers the peak loads that inevitably occur on particularly cold days, in order to provide extra heating for domestic hot water.



Energy efficiency label A++ for Vitosorp 200-F, D2RA (15 kW)



Versatile: The Vitosorp 200-F can be used with solar collectors or geothermal probes, cages or collectors.

Gas adsorption heating appliance

Vitosorp 200-F 1.8 to 16.7 kW



Maintenance free
heat pump module

Flexible utilisation of natural heat

The special design of the Vitosorp 200-F allows flexible and affordable utilisation of geothermal heat or solar thermal energy. Solar collectors, geothermal collectors or geothermal cages are available for new build. In existing buildings, the solar collectors already installed can be used as a primary heat source. A vertical, 60 metre deep geothermal probe would be a space saving geothermal solution.

Ideal for modern living

The Vitosorp 200-F is designed to meet the heat demand of detached houses. It is particularly efficient in new build. The use of environmental energy ensures a secure energy supply for the future. This unit meets the stricter EnEV 2016 requirements for new build.

The Vitosorp 200-F is an efficient solution for modernisation projects too, as flow temperatures of up to 75 °C are feasible (recommendation < 55 °C).

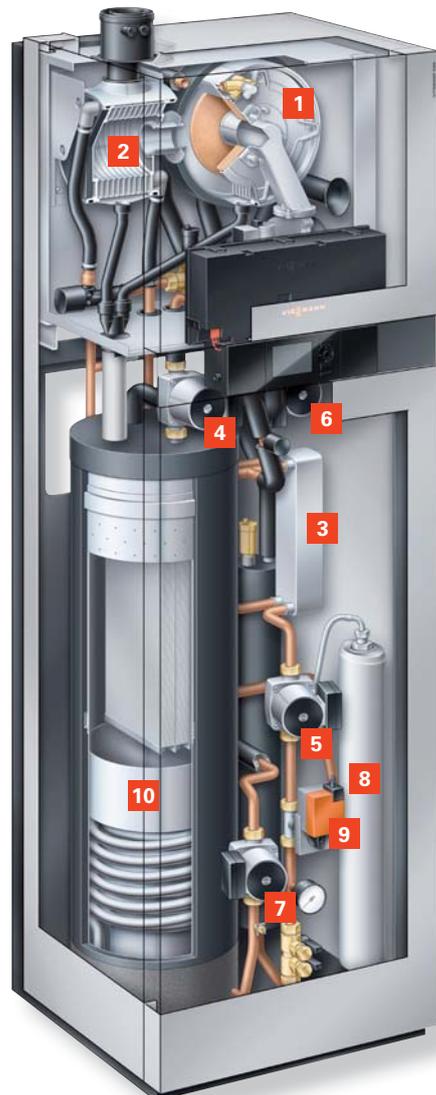
Easy handling and installation save time and money. With its compact dimensions, i.e. only 600 mm wide, the gas adsorption heating appliance fits snugly into the space of a standard kitchen unit (room height at least 2.20 metres). Low operating noise and the harmless combination of materials – zeolite and water – allow operation inside the living space.

Proven performance and low maintenance

The zeolite heat pump module is hermetically sealed and therefore completely maintenance free throughout the service life of the appliance. The gas condensing boiler in the Vitosorp 200-F has a proven track record of high reliability and low maintenance going back many years.

Subsidies

Additional incentives for investing in this innovative heating technology are available from the German Federal Office of Economics and Export Control (BAFA). Further funding is available in addition to basic funding (see www.bafa.de).

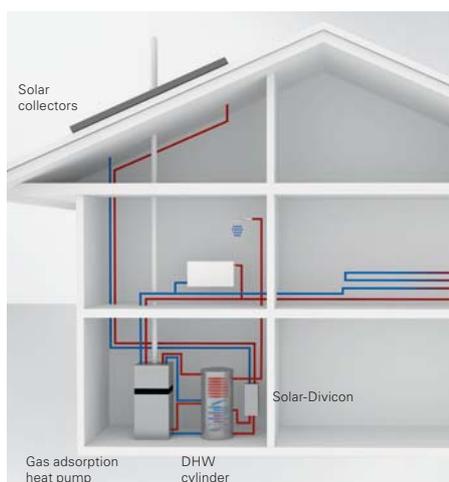


Vitosorp 200-F

- 1 Gas condensing peak load boiler
- 2 Downstream heat exchanger
- 3 System separation
- 4 Sorber circuit pump 1 (condenser)
- 5 Sorber circuit pump 2 (evaporator)
- 6 Heating circuit pump
- 7 Heat source pump
- 8 Integral expansion vessel
- 9 Control valve
- 10 Zeolite adsorption module



Vitosorp 200-F in combination with the Vitocell 300-V DHW cylinder



Vitosorp 200-F with solar thermal heat source and combi heating water buffer cylinder: All components are matched to ensure maximum efficiency of the whole system.

Take advantage of these benefits

- Variable output modulation from 1.8 to 16.7 kW
- Heat sources: geothermal heat and/or solar thermal energy
- High DHW convenience with 15 kW DHW booster
- Seasonal efficiency, central heating and DHW (35/28 °C, VDI 4650-2)
geothermal heat (11 kW): 119 % (H_g [gross cv])/ 132 % (H_i) [net cv]
solar (15 kW): 134 % (H_g) [gross cv] / 149 % (H_i) [net cv]
- Lowest possible gas consumption through combination of condensing technology and renewable heat
- Efficient peak load cover by integral gas condensing boiler
- Maintenance costs comparable to those of a gas condensing boiler
- Little effort required to utilise environmental heat: solar thermal systems from 7 m² upwards can still be used
- Pollutant-free zeolite adsorption module: zeolite (ceramic) and water used as a heat transfer medium
- As quiet as a gas condensing boiler
- Easy-to-use Vitotronic control unit with display of ambient energy yield; can also be controlled via smartphone with the Vitotrol app
- Eligible for subsidies via the BAFA market incentive programme (existing buildings and new build)
- Extra regional subsidies may be available from gas supply companies

For specification, see page 50

Gas condensing
technology

Vitocrossal 300



VITOCROSSAL 300

Top technology – this gas condensing boiler will meet all your needs.

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

Today, using a condensing boiler in new buildings is more or less standard, because 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.



Inox-Crossal heat exchanger

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

Advanced condensing technology

The stainless steel Inox-Crossal heat exchanger offers ideal conditions for utilising condensing technology. The smooth stainless steel heat exchanger allows the condensate created by the condensing process to simply run off downwards. Combined with the smooth stainless steel surface, this creates a permanent self-cleaning effect, thus ensuring efficiency, increasing service life and reducing maintenance.

Intensive utilisation of the hot gases

Thanks to the design of its vertical heat exchanger, the Vitocrossal 300 utilises the condensation energy in its hot gases particularly effectively. This results in efficiency of up to 98 percent.

Convenient Vitotronic control unit

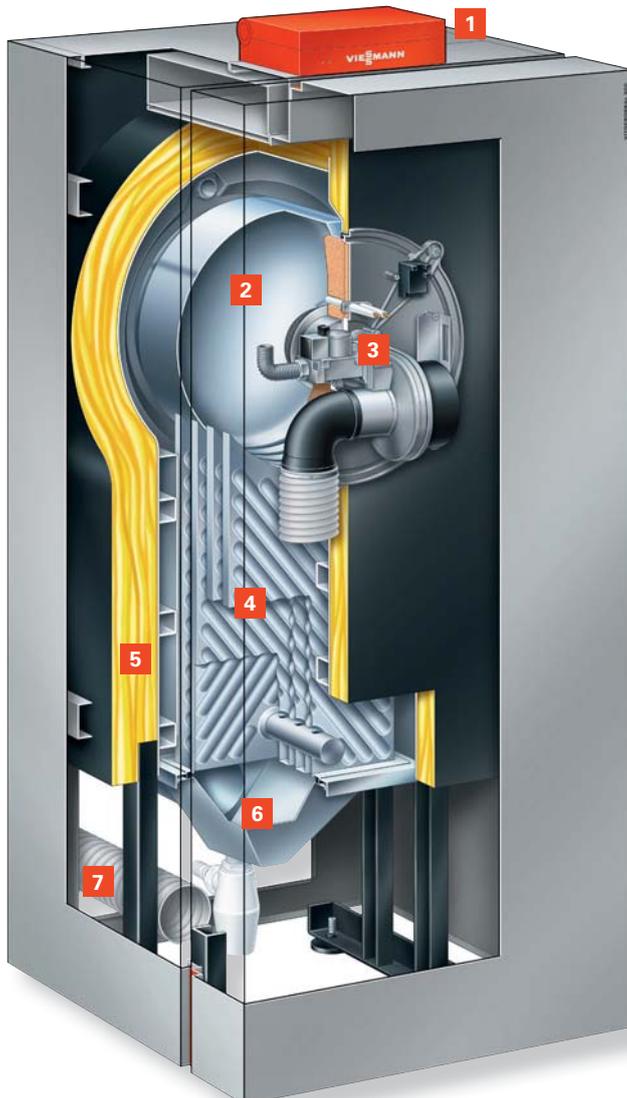
Contractors and users benefit equally from the easy-to-use Vitotronic control unit, as the structure of its menu is logical and clearly laid out and the backlit unit offers good contrast and is easy to read. If in doubt, a help function informs users of the next steps to perform. The graphic user interface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

Intelligent combustion control

The proven MatriX gas burner with Lambda Pro Control combustion controller automatically adjusts to fluctuating gas qualities and ensures a constantly high standard seasonal efficiency [to DIN] of 98 percent, both for natural gas and LPG.

Room sealed operation

Room sealed operation is possible, and allows flexible installation of the condensing boiler inside the building.



Vitocrossal 300

- 1 Vitotronic 200 digital boiler control unit
- 2 Water-cooled stainless steel combustion chamber
- 3 Modulating MatriX gas burner with Lambda Pro Control combustion controller
- 4 Inox-Crossal heat exchanger made from stainless steel
- 5 Highly effective thermal insulation
- 6 Flue gas collector with condensate drain pipe
- 7 Ventilation air pipe for room sealed operation



The Vitocrossal 300 in combination with the Vitocell 300-V DHW cylinder.



Vitotronic 200 control unit with clear user prompts

Take advantage of these benefits

- Compact gas condensing boiler, from 2.6 to 60 kW
- Standard seasonal efficiency [to DIN] up to 98 % (H_g [gross cv]) / 109 % (H_i [net 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 costs by extending the inspection interval to three years [in Germany]
- Excellent controllability and reliable heat transfer through wide water galleries and large water capacity
- Easy-to-use Vitotronic 200 control unit with plain text and graphic display
- Room sealed or open flue operation

For specification, see page 50

Gas condensing
technology

Vitodens 300-W



VITODENS 300-W

The Vitodens 300-W meets the highest requirements for convenient heat supply. The appliance now has internet-enabled control for improved efficiency and cost benefits.

The Vitodens 300-W is Viessmann's flagship wall mounted gas condensing boiler. Modern and compact assemblies ensure an extremely space saving design.

Economical and efficient

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 efficiently and with almost no loss. Efficiency is a practically unbeatable 98 percent. This extremely economical use of valuable natural gas also results in reduced CO₂ emissions. The Vitodens 300-W thus makes an active contribution to protecting the climate.



VDE test for Smart Home
information security



Vitotrol Plus app

Lambda Pro Control for permanently high efficiency

The Vitodens 300-W is equipped with the automatic Lambda Pro Control combustion controller to ensure permanently high efficiency. This control unit also adjusts the condensing boiler to fluctuating gas qualities, as may arise when converting from L to H gas, which is due to take place in many parts of Germany in the near future. Nor is there any problem with biogas mixtures, thanks to Lambda Pro Control.

The combustion controller simplifies commissioning and extends the inspection intervals by the flue gas inspector from two to three years.

Quiet and clean combustion

The low fan speed ensures low combustion noise, whilst constantly low emissions make an important contribution to sustainable climate protection.

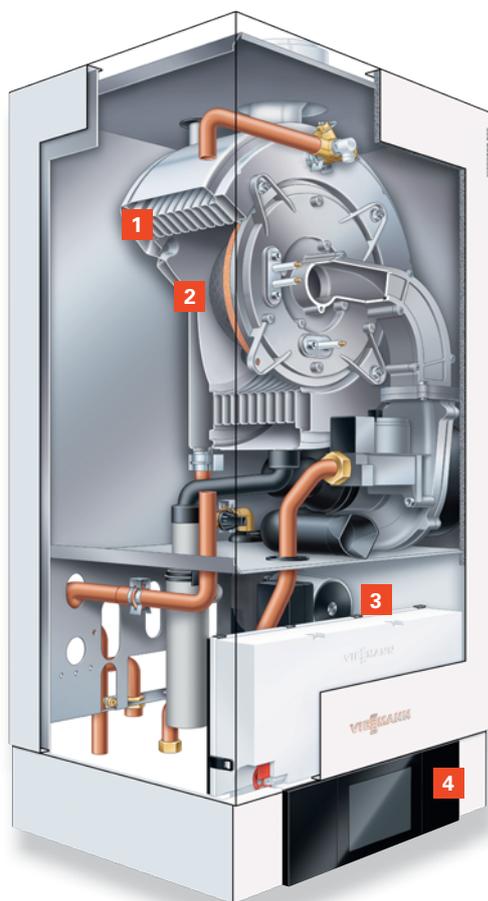
The Vitodens 300-W has output ratings that permit its use both in modernisation projects and in new build.

Large 5-inch colour touchscreen with energy cockpit

A particularly striking feature is the five-inch colour touchscreen on the Vitodens 300-W control unit. The screen measures almost 13 centimetres diagonally, providing a large, clear display for the energy cockpit that keeps users updated on yields and consumption. It also shows the solar yield if a solar system is connected or the gas consumption for central heating and DHW. Furthermore, the current heat-up condition of the DHW cylinder is clearly indicated. A histogram can show all these values by day, week, month or year.

Internet and network enabled for ultra convenient operation

The Vitodens 300-W is already supplied with an integral internet interface. It can be controlled from wherever you are by using the Vitotrol Plus App on your smartphone or tablet. The boiler and DSL router can be connected directly using an Ethernet cable.

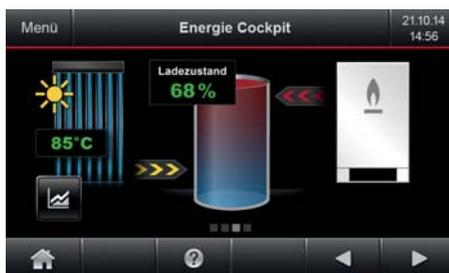


Vitodens 300-W

- 1** Inox-Radial heat exchanger made from stainless steel
- 2** MatriX gas burner with Lambda Pro Control combustion controller
- 3** High efficiency pump
- 4** Vitotronic 200 controller with 5-inch colour touchscreen



The compact Vitodens 300-W wall mounted gas condensing boiler is easy to integrate into your design scheme and looks good anywhere.



Energy cockpit

Take advantage of these benefits

- Wall mounted gas condensing boiler (system boiler), 1.9 to 35 kW
- Standard seasonal efficiency [to DIN]: 98 % (H_g) [gross cv] / 109 % (H_i) [net cv]
- Wide modulation range of up to 1:10
- Large water capacity; low cycling frequency, even when little heat is drawn off
- Durable and efficient thanks to the Inox-Radial heat exchanger
- MatriX gas burner with long service life thanks to stainless steel MatriX gauze – resistant to high temperature loads
- Lambda Pro Control combustion controller for all gas types – reduces costs by extending the inspection interval to three years [in Germany]
- Quiet operation thanks to low fan speed
- Attractive 5-inch colour touchscreen designed to be highly user friendly with plain text display supported by graphics
- Design your own favourites page for quick access
- Energy cockpit displays energy generation/consumption for solar and gas and provides histograms
- Direct networking through LAN interface and operation via Vitotrol Plus app
- Excellent integration of solar thermal system through display of heat-up condition in conjunction with an intelligent system cylinder (Vitocell 100-W, CVUC-A)
- Optional automatic hydraulic balancing with Vitoflow (eligible for KfW subsidies)

For specification, see page 51

Gas condensing
technology

Vitodens 333-F



VITODENS 333-F

The Vitodens 333-F combines the benefits of the Vitodens 300-W with the high level of DHW convenience afforded by a separate DHW cylinder in one compact floorstanding appliance.

Investing in a Vitodens 333-F covers all bases: It is equally well suited to modernisation and new build projects and offers the ideal combination of efficient gas condensing technology and convenient DHW supply. Particular benefits of the Vitodens 333-F include its reliable operation and compact dimensions.

Compact and efficient

The Vitodens 333-F is a powerful gas condensing storage combi boiler. The stainless steel loading cylinder with its 100 litre capacity ensures a high level of DHW convenience. The proven MatriX gas burner with Lambda Pro Control automatically adjusts to fluctuating gas qualities and ensures a constantly high standard seasonal efficiency [to DIN] of 98 percent.



VDE test for Smart Home
information security



MatriX gas burner

Reliable and durable

A high level of operational reliability and a long service life make this storage combi boiler stand out from the crowd. Alongside its economical consumption of natural gas, maintenance costs are also kept to a minimum. In the output range up to 26 kW, the Vitodens 333-F covers a broad spectrum of applications – from apartments to detached and two-family houses.

Fully assembled, straight from the box

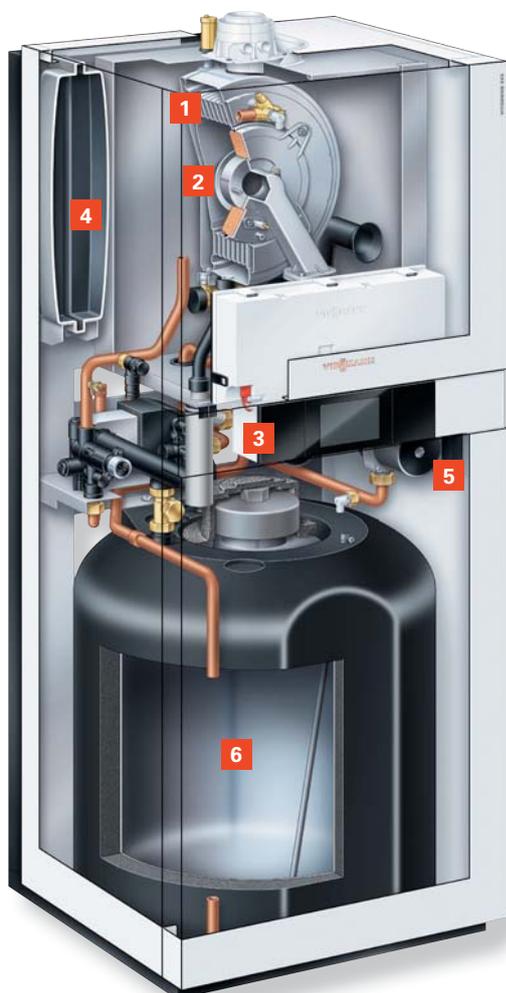
The footprint of the Vitodens 333-F is no larger than that of a fridge-freezer. This condensing boiler is fully fitted at the factory, which significantly reduces the installation time. You'll particularly appreciate this when you see that the loss of heating and DHW provision during a modernisation project can be reduced to a minimum.

Large 5-inch colour touchscreen with energy cockpit

A particularly striking feature is the five-inch colour touchscreen on the Vitodens 333-F control unit. The screen measures almost 13 centimetres diagonally, providing a large, clear display for the new energy cockpit that keeps users updated on yields and consumption. It also shows solar yield or gas consumption for central heating and DHW. A histogram can show all these values by day, week, month or year.

Internet and network enabled for ultra convenient operation

The Vitodens 333-W comes ready supplied with an integral internet interface. It can be controlled from wherever you are by using the Vitotrol Plus App on your smartphone or tablet. The boiler and DSL router can be connected directly using an Ethernet cable.



Vitodens 333-F

- 1 Innox-Radial heat exchanger
- 2 MatriX gas burner with Lambda Pro Control combustion controller
- 3 Vitotronic 200 controller with 5-inch colour touchscreen
- 4 Expansion vessel
- 5 High efficiency pump
- 6 Stainless steel loading cylinder



Hot water included – the Vitodens 333-F



5-inch colour touchscreen on the Vitotronic 200 controller (HO2B)

Take advantage of these benefits

- Gas condensing storage combi boiler with integral stainless steel loading cylinder, 1.9 to 26 kW
- Standard seasonal efficiency [to DIN]: 98 % (H_g) [gross cv] / 109 % (H_n) [net cv]
- Wide modulation range of up to 1:10
- Lambda Pro Control combustion controller for all gas types – reduces costs by extending the inspection interval to three years [in Germany]
- Durable and efficient thanks to the Inox-Radial heat exchanger
- MatriX gas burner with long service life thanks to stainless steel MatriX gauze – resistant to high temperature loads
- Stainless steel loading cylinder with 100 litre capacity
- Attractive colour touchscreen designed to be highly user friendly with plain text display supported by graphics
- Design your own favourites page for quick access
- Energy cockpit displays energy generation/consumption for solar and gas and provides histograms
- Direct networking through LAN interface and operation via Vitotrol Plus app
- Universal connection sets for individual installation flush against the wall

For specification, see page 51

Gas condensing
technology

Vitodens 343-F



VITODENS 343-F

This fully wired storage combi boiler offers energy efficient condensing technology, high performance DHW heating via a cylinder loading system and ready-to-connect solar technology in a single casing.

For state of the art heating with condensing and solar technology in detached houses, the Vitodens 343-F is an extremely energy efficient, environmentally responsible and advanced heating system. With a footprint of just 0.4 square metres, this storage combi boiler takes up only a relatively small amount of space, so it can fit into any recess. All components are accessible from the front for easy installation and maintenance. The Vitodens 343-F gas condensing boiler is both quiet as a whisper and highly efficient.

Futureproof through solar integration

The Vitodens 343-F is fully prepared for combination with Vitosol solar collectors, either now or in the future.



VDE test for Smart Home
information security



Inox-Radial heat exchanger

High heating and DHW convenience including solar integration

The Vitodens 343-F gas condensing storage combi boiler is specifically designed for new build and for modernising detached houses. The Vitodens 343-F is equipped as standard for direct connection of a solar thermal system. The appliance, for installation tight against the wall, offers high DHW convenience, as the dual mode stainless steel DHW cylinder features a capacity of 220 litres. Unlike its predecessor, this compact appliance can be split for easier handling. In addition, its weight has been significantly reduced.

Lambda Pro Control for permanently high efficiency

The Vitodens 343-F is equipped with the automatic Lambda Pro Control combustion controller to ensure permanently high efficiency. This control unit also adjusts the condensing boiler to fluctuating gas qualities, as may arise when converting from L to H gas, which is due to take place in many parts of Germany in the near future. Nor is there any problem with biogas mixtures, thanks to Lambda Pro Control.

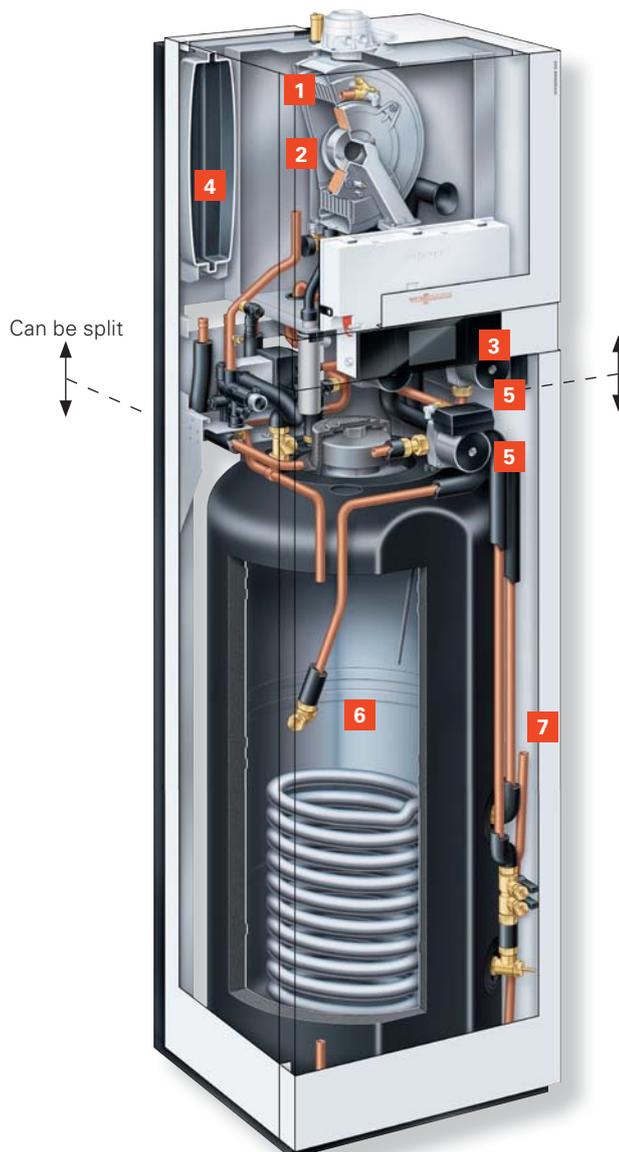
The combustion controller simplifies commissioning and extends the inspection intervals by the flue gas inspector from two to three years.

Large 5-inch colour touchscreen with energy cockpit

A particularly striking feature is the five-inch colour touchscreen on the Vitodens 343-F control unit. The screen measures almost 13 centimetres diagonally, providing a large, clear display for the energy cockpit that keeps users updated on yields and consumption. It also shows the solar yield of the connected solar system or the gas consumption for central heating and DHW. A histogram can show all these values by day, week, month or year.

Internet and network enabled for ultra convenient operation

The Vitodens 343-F is already supplied with an integral internet interface. It can be controlled from wherever you are by using the Vitotrol Plus App on your smartphone or tablet. The boiler and DSL router can be connected directly using an Ethernet cable.

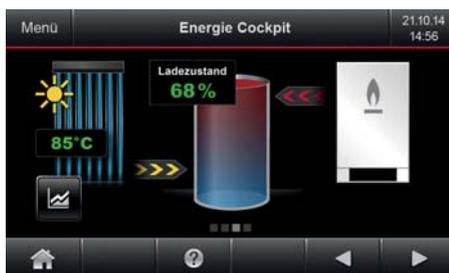


Vitodens 343-F

- 1 Inox-Radial heat exchanger
- 2 MatriX gas burner with Lambda Pro Control combustion controller
- 3 Vitotronic 200 controller with 5-inch colour touchscreen
- 4 Expansion vessel
- 5 High efficiency pumps
- 6 Stainless steel DHW cylinder with solar indirect coil
- 7 Filling facility for the solar circuit



The Vitodens 343-F is an extremely energy efficient, environmentally responsible and advanced heating system for state of the art heating with condensing and solar technology in detached houses.



Energy cockpit

Take advantage of these benefits

- Gas condensing storage combi boiler with integral solar DHW heating, 1.9 to 19 kW
- Standard seasonal efficiency [to DIN]: 98 % (H_g) [gross cv] / 109 % (H_n) [net cv]
- Wide modulation range of up to 1:10
- Durable and efficient thanks to the Inox-Radial heat exchanger
- MatriX gas burner with long service life thanks to stainless steel MatriX gauze – resistant to high temperature loads
- High DHW convenience thanks to stainless steel DHW cylinder with 220 litre capacity and solar indirect coil
- Attractive colour touchscreen designed to be highly user friendly with plain text display supported by graphics
- Design your own favourites page for quick access
- Energy cockpit displays energy generation/consumption for solar and gas and provides histograms
- Direct networking through LAN interface and operation via Vitotrol Plus app
- Lambda Pro Control combustion controller for all gas types – reduces costs by extending the inspection interval to three years [in Germany]
- Universal connection sets for individual installation flush against the wall
- Can be split for easier handling
- Solar coverage for DHW heating: > 60 %

For specification, see page 51

Gas condensing
technology

Vitodens 200-W
Vitodens 222-W



VITODENS 200-W

VITODENS 222-W

The Vitodens 200-W and 222-W gas condensing boilers are effective and affordable solutions for small and large heat demands.

Vitodens 200-W: Long-lasting efficiency

If you are concerned with economy and a long service life, then only stainless steel should be considered. For this reason, the Vitodens 200-W is equipped with a stainless steel Inox-Radial heat exchanger which offers the required reliability and ensures permanently high condensing efficiency.

Vitodens 222-W: Compact and convenient

The Vitodens 222-W gas condensing storage combi boiler is ideally suited to apartments and detached houses. It can be easily installed in a recess in your bathroom or wall mounted in a utility room, where it won't look out of place above the worktop, washing machine or dryer.

The level of DHW convenience provided by the Vitodens 222-W is particularly impressive. This gas condensing boiler has an integral stainless steel loading cylinder with a 46 litre capacity. Where drawing hot water is concerned, this volume is comparable to a separate 150 litre DHW cylinder.

Available as a system or combi boiler

The Vitodens 200-W wall mounted gas condensing boiler is optionally available as a system boiler with separate DHW heating, or as a combi boiler with an output of up to 35 kW and an integral instantaneous water heater. This ensures that DHW and central heating are available without taking up too much space.

Extremely easy to service

Even in terms of maintenance and service, you'll save plenty of time with these two gas condensing boilers. All components are accessible from the front, making a side clearance for servicing unnecessary.

Last, but not least, all system components, such as the loading cylinder, heating water expansion vessel, pumps and safety valves are fully fitted at the factory.



Inox-Radial heat exchanger

Vitodens 200-W: Efficient and attractive – with a price to match

With the Vitodens 200-W, Viessmann offers a wall mounted gas condensing boiler with an exemplary price/performance ratio, excellent heating and DHW convenience, compact dimensions and a timeless, elegant design.

Up to 98 percent efficiency

The Vitodens 200-W wall mounted gas condensing boiler consumes less energy because it also utilises the heat in the flue gases. This results in an efficiency of up to 98 percent, which will reduce your heating bills and benefit 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.

Thanks to the Lambda Pro Control, the flue gas inspection intervals have now been extended to three years [in Germany]. That reduces your costs.

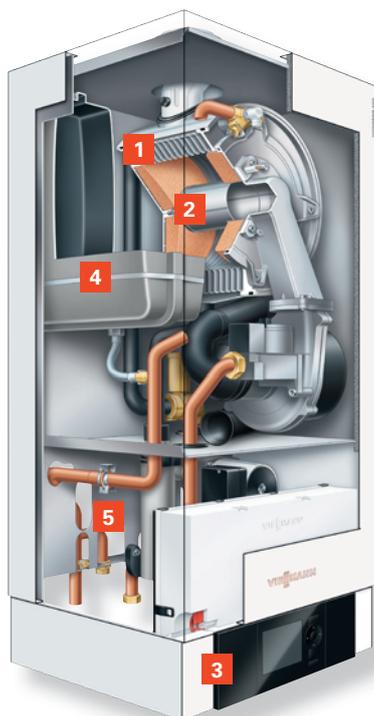
Vitodens 222-W: Condensing storage combi boiler with integral stainless steel loading cylinder

With the Vitodens 222-W, Viessmann offers a particularly space saving, wall mounted gas condensing storage combi boiler for high DHW demands. The heat cell comprises the proven stainless steel Inox-Radial heat exchanger, the modulating MatriX cylinder burner and the automatic Lambda Pro Control combustion controller. It is particularly recommended for installation in new build, and will easily fit in, even where space is tight.

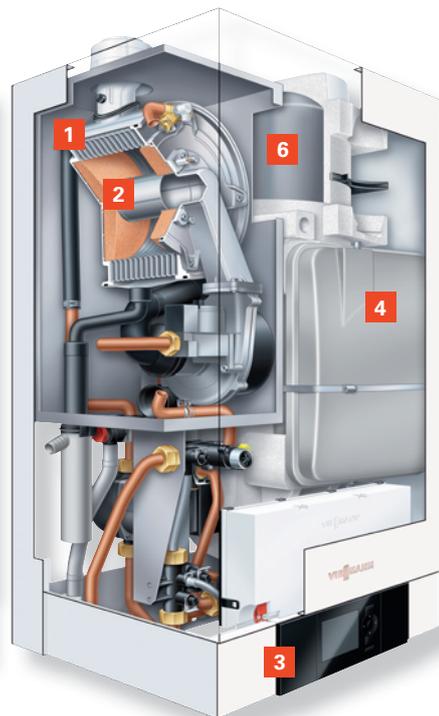
How the loading cylinder works

In comparison to a conventional DHW cylinder, a loading cylinder works with a significantly lower water content to provide the same volume of hot water. 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. Temperature sensors ensure that the preset temperature is reached and maintained.

Where necessary, the MatriX cylinder burner in the Vitodens 222-W starts automatically and ensures the required water temperature is reached. This principle is particularly relevant when filling a bathtub or taking a long shower.



Vitodens 200-W



Vitodens 222-W

- 1 Stainless steel Inox-Radial heat exchanger
- 2 MatriX cylinder burner
- 3 Vitotronic control unit
- 4 Expansion vessel
- 5 Stainless steel plate heat exchanger (combi boiler)
- 6 Stainless steel loading cylinder inside the Vitodens 222-W



The Vitodens 200-W is compact and can be installed in tight spaces. All components can be accessed from the front.

Take advantage of these benefits

- Standard seasonal efficiency [to DIN] up to 98 % (H_s [gross cv]) / 109 % (H_i [net cv])
- Durable and efficient thanks to the 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-use Vitotronic control unit with plain text and graphic display
- Power saving high efficiency pump
- Lambda Pro Control combustion controller for all gas types – reduces costs by extending the inspection interval to three years [in Germany]
- Quiet operation thanks to low fan speed

The added bonus of the Vitodens 200-W

- Exemplary price/performance ratio
- Compact dimensions, only 450 mm wide (3.2 to 35 kW)
- Available either as a combi or system boiler (5.2 to 35 kW)

The added bonus of the combi boiler

- High level of DHW convenience as a result of the standby function

The added bonus of the system boiler

- Affordable and space efficient solution, even for a high heat demand (up to 150 kW)
- Cascade with up to four boilers from 45 kW to 600 kW

The added bonus of the Vitodens 222-W

- Particularly space saving gas condensing storage combi boiler with integral stainless steel loading cylinder
- High level of DHW convenience with immediate availability
- High continuous output of hot water as a result of cylinder heating
- All system components, such as loading cylinder, expansion vessel (on the heating side), pumps and safety valves are fully fitted

For specification, see page 52

Gas condensing
technology

Vitodens 222-F



VITODENS 222-F

These floorstanding condensing storage combi boilers, with enamelled loading cylinder or DHW cylinder with internal indirect coil, boast a high DHW output and the convenience of intuitive appliance adjustments.

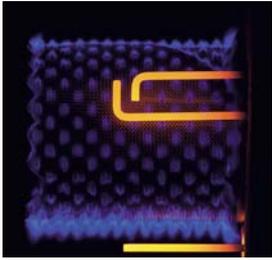
Who says that you can't put your new heating system in the kitchen? With the floorstanding Vitodens 222-F condensing storage combi boiler, that's not a problem, as it fits perfectly into the space of a standard kitchen unit, blending in neatly whilst being extremely economical and quiet to run.

Low gas consumption

The Vitodens 222-F offers permanently low gas consumption and, thanks to the Lambda Pro Control combustion controller, ensures high operational reliability.

Easy installation

With its connection sets, this storage combi boiler is suited to a particularly wide variety of applications. It is largely pre-assembled and can be installed quickly. Maintenance and servicing can be performed rapidly and at low cost.



MatriX cylinder burner

Affordable and space efficient

The Vitodens 222-F gas condensing storage combi boiler is designed specifically for modernising heating systems and as a replacement for older gas boilers with cylinder below. The enamelled loading cylinder with 100 or 130 litre capacity ensures a high degree of DHW convenience. For hard water areas, a version using an enamelled DHW cylinder with 100 or 130 litre capacity and an indirect internal coil is available as an alternative.

Intelligent combustion control

All sizes of the Vitodens 222-F are now equipped with the automatic Lambda Pro Control combustion controller. This combustion controller extends the flue gas inspection intervals to three years (in Germany), thus reducing your costs.

The proven MatriX cylinder burner with Lambda Pro Control combustion controller automatically adjusts to fluctuating gas qualities and ensures a constantly high standard seasonal efficiency [to DIN] of 98 percent with permanently low consumption. Even if the gas type is changed, i.e. by adding biogas, it is not necessary to change the nozzle. The Lambda Pro Control automatically adjusts the boiler to suit the new conditions.

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 backlit unit has good contrast and is easy to read. If in doubt, a help function informs users of the next steps to perform.



Vitodens 222-F with enamelled DHW cylinder
with internal indirect coil for hard water areas



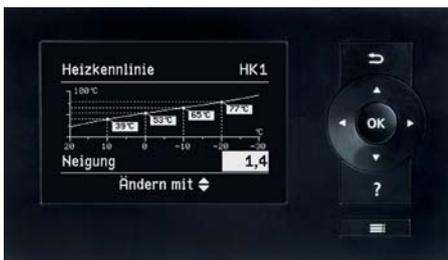
Vitodens 222-F with enamelled loading cylinder

Vitodens 222-F

- 1 Inox-Radial heat exchanger
- 2 MatriX cylinder burner with Lambda Pro Control combustion controller
- 3 Vitotronic control unit
- 4 Expansion vessel
- 5 High efficiency pump
- 6 Enamelled DHW cylinder with internal indirect coil
- 7 Enamelled loading cylinder



The Vitodens 222-F can be adapted to suit the conditions of the installation location.



Vitotronic control unit – easy operation thanks to user prompts and graphic display, e.g. the gradient of the heating curves

Take advantage of these benefits

- Gas condensing storage combi boiler with integral enamelled loading cylinder or DHW cylinder with internal indirect coil, 3.2 to 35 kW or 3.2 to 26 kW
- Standard seasonal efficiency [to DIN]: 98 % (H_g) [gross cv] / 109 % (H_n) [net cv]
- Enamelled loading cylinder with 100 litre capacity (35 kW: 130 litres), DHW cylinder with internal indirect coil with 130 litre capacity
- Durable and efficient thanks to the 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-use Vitotronic control unit with plain text and graphic display
- Power saving high efficiency pump
- Lambda Pro Control combustion controller for all gas types – reduces costs by extending the inspection interval to three years [in Germany]
- Universal connection sets for individual installation flush against the wall
- No side service clearance required
- DHW expansion vessel and DHW circulation pump can be integrated inside the appliance
- Special assembly kit for heating circuits with mixer available as an accessory in the same dimensions and design as the appliance

For specification, see page 52

Gas condensing
technology

Vitodens 242-F



VITODENS 242-F

This fully wired storage combi boiler offers energy efficient condensing technology, high performance DHW heating via a cylinder loading system and ready-to-connect solar technology in a single casing.

For progressive 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 takes up only a relatively small amount of space, so can fit into any recess. Furthermore, all components for installation and maintenance are accessible from the front. And last, but not least, the Vitodens 242-F gas condensing boiler is both quiet as a whisper and highly efficient.

Futureproof through solar integration

The Vitodens 242-F is fully prepared for combination with Vitosol solar collectors, 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.



Vitotrol Plus app

High heating and DHW convenience including solar integration

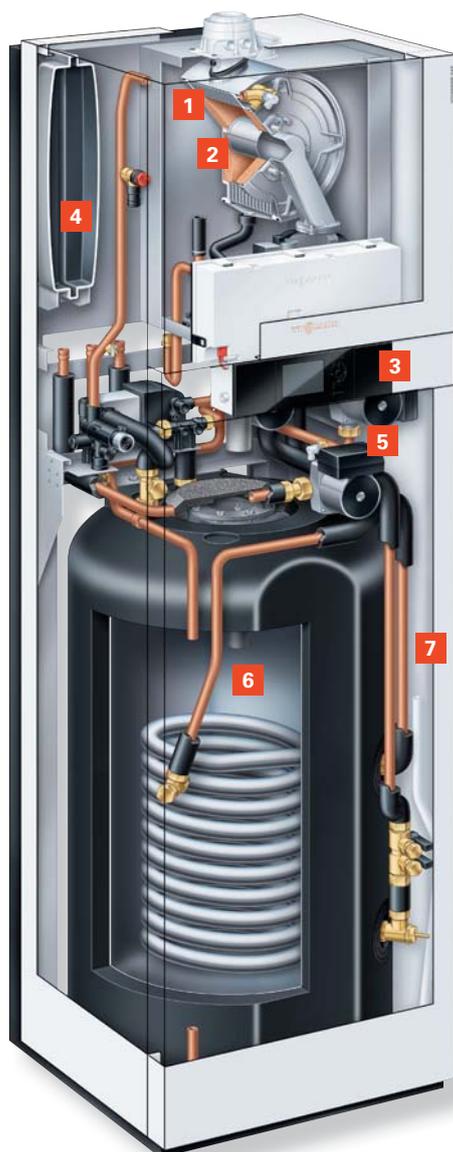
The Vitodens 242-F gas condensing storage combi boiler is specifically designed for new build and for modernisation in detached houses. The Vitodens 242-F is equipped as standard for direct connection of a solar thermal system. The appliance, for installation tight against the wall, offers high DHW convenience, as the dual mode stainless steel DHW cylinder features a capacity of 170 litres.

Vitotronic control unit

The Vitotronic control unit features self-explanatory user prompts. If in doubt, help with the next input is available at the push of a button. The graphic interface will also display heating curves and solar yield. The control module for regulating the solar thermal system is already integrated. An easily accessible interface is available for connecting the collector temperature sensor.

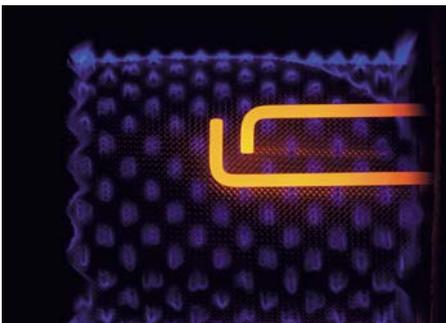
Intelligent combustion control

All sizes of the Vitodens 242-F are now equipped with the automatic Lambda Pro Control combustion controller. Even if the gas composition fluctuates, efficiency remains consistently high. Furthermore, if the gas type is changed, i.e. by adding biogas, it is not necessary to change the nozzle. The Lambda Pro Control automatically adjusts the boiler to suit the new conditions.



Vitodens 242-F

- 1 Inox-Radial heat exchanger
- 2 MatriX cylinder burner
- 3 Vitotronic control unit
- 4 Expansion vessel
- 5 Heat and solar circuit pump
- 6 Enamelled loading cylinder
- 7 Solar circuit fill valve



MatriX cylinder burner

Take advantage of these benefits

- Gas condensing storage combi boiler with integral solar cylinder, 3.2 to 26 kW
- Standard seasonal efficiency [to DIN]: 98 % (H_g) [gross cv] / 109 % (H_i) [net cv]
- Cylinder capacity: 170 l
- Performance factor: $N_L = 2.0$ (26 kW)
- Durable and efficient thanks to the Inox-Radial heat exchanger
- MatriX cylinder burner with Lambda Pro Control combustion controller for permanently high efficiency and clean combustion
- Enamelled loading cylinder with 170 litre capacity and solar indirect coil
- Vitotronic control unit that is easy to operate with plain text and graphic display plus programming unit that can be mounted separately in a wall mounting base
- Lambda Pro Control combustion controller for all gas types
- High standardisation of components for all new compact appliances
- Universal connection sets for individual installation flush against the wall
- No side service clearance required
- Solar coverage > 55 percent (southern Europe)

For specification, see page 53

Gas condensing
technology

Vitosolar 300-F



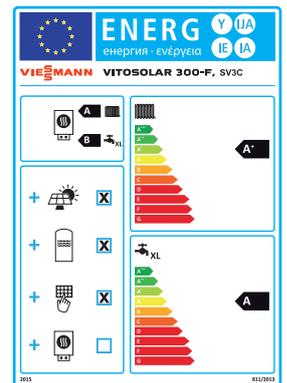
VITOSOLAR 300-F

Powerful and compact heating centre including solar operation – available with an optional Vitodens 300-W or 200-W wall mounted gas condensing boiler.

The powerful and compact heating centre, the Vitosolar 300-F, features major new developments: Compared to the previous model, the required room height including flue outlet has been reduced by up to 19 cm, extending the application range to include cellars with low ceilings, for example. The high performance unit for solar central heating backup and DHW heating consists of a 750 litre combi cylinder and is designed for direct mounting of the Vitodens 300-W or 200-W wall mounted gas condensing boiler.

New thermal insulation for lower heat losses

The polyester fibre fleece insulation has been improved. The improved insulation thickness reduces heat losses and saves energy.



Energy efficiency label for Vitosolar 300-F, SV3C condensing storage combi boiler with solar collectors



Inox-Radial heat exchanger

Economical and eligible for subsidies

Operating this system in conjunction with Vitosol solar collectors for central heating backup meets the requirements of the Renewable Energies Heat Act [Germany] and the Renewable Heat Act, Baden-Württemberg. This investment may attract public subsidies. For up to date information, see the subsidy database at www.viessmann.de.

Further savings are available thanks to the variable speed high efficiency circulation pumps for the heating and solar circuits. These save up to 70 percent of the electricity used by conventional pumps.

One control unit for all systems

Contrary to other systems of this kind, the Vitosolar 300-F is supplied with just one control unit – the Vitotronic 200. This controls all functions required by the boiler and the solar thermal system. The solar yield is shown on the control unit display to assist in collating the energy statement. This ensures convenient operation from one central programming unit.

Solar yield always on display

The colour touchscreen of the Vitosolar 300-F with Vitodens 300-W is an eye-catching new addition. The energy cockpit records the current level of heat generation and presents it in a well arranged layout. It informs users about the cylinder loading status, temperature curve and temperature stratification inside the combi cylinder. The wizard simplifies commissioning of the unit and the connected solar thermal system.

Easy to install, everything included

The Vitosolar 300-F is pre-assembled at the factory with heating circuit distributor, solar circuit components, thermally insulated pipework and shut-off valves. Connections for integrating a second heat generator, such as a wood boiler, are already provided. All connections can be routed out of the appliance to the right or left, subject to the space available.



Vitosolar 300-F

- 1 Multi mode heating water buffer cylinder
- 2 Vitodens 300-W wall mounted gas condensing boiler
- 3 Corrugated stainless steel indirect coil for DHW heating
- 4 Vitotronic 200 control unit with colour touchscreen
- 5 Solar indirect coil
- 6 Divicon heating circuit distributor
- 7 Connections on the system side
- 8 Solar circuit components (partially hidden)



Vitosolar 300-F gas condensing storage combi boiler for solar DHW heating and central heating backup.



Vitotronic 200 control unit with colour touchscreen (for use with the Vitodens 300-W wall mounted gas condensing boiler)

Take advantage of these benefits

- Compact appliance for solar DHW heating and central heating backup with a Vitodens 300-W or Vitodens 200-W wall mounted gas condensing boiler
- 750 litre combi cylinder for solar central heating backup
- Convenient Vitotronic 200 control unit for operating the entire energy centre, including the solar thermal system
- New, innovative operating concept for use with the Vitodens 300-W, based on a colour touchscreen with plain text and graphic display, commissioning wizards, energy consumption displays and the alternative of operating from a personal mobile device
- Power saving high efficiency circulation pumps for solar and heating circuit
- Compact dimensions – ideal for new build and modernisation
- Cohesive high quality heating system design
- Meets statutory requirements in accordance with the Renewable Energies Heat Act and the Renewable Heat Act [Germany]
- Option to connect additional heat generators (e.g. solid fuel boiler)

For specification, see page 53



Vitorsorp 200-F gas adsorption heating appliance

Type		D2RA 001/002 (Geothermal heat / solar)	D2RA 003/004 (Geothermal heat / solar)
Rated heating output range for central heating and heating water temperatures to VDI 4650-2			
35/28 °C	kW	1.8 to 11.0	1.8 to 16.7
55/45 °C	kW	1.8 to 10.3	1.8 to 15.0
Max. rated heating output for DHW heating			
	kW	15.1	15.1
Dimensions			
Length (depth)	mm	595	595
Width	mm	600	600
Height	mm	1875	1875
Total weight (incl. casing)			
	kg	169	169
Seasonal efficiency, heating to VDI 4650-2 at heating water temperatures			
35/28 °C	%	124 / 125 (H _s [gross cv])	118 / 122 (H _s [gross cv])
55/45 °C	%	115 / 116 (H _s [gross cv])	109 / 114 (H _s [gross cv])
Energy efficiency class			
		A ⁺ / A ⁺	A ⁺ / A ⁺



Vitocrossal 300* gas condensing boiler

		2.6 – 13	2.6 – 19	5.2 – 26	7 – 35	12 – 45	12 – 60
Rated heating output range							
50/30 °C	kW	2.6 – 13	2.6 – 19	5.2 – 26	7 – 35	12 – 45	12 – 60
80/60 °C	kW	2.4 – 11.8	2.4 – 17.2	4.7 – 23.5	6.3 – 31.7	10.9 – 40.8	10.9 – 54.3
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
Boiler water capacity							
	litre	53	53	51	49	71	71
Energy efficiency class							
		A	A	A	A	A	A

* Available up to 142 kW; specification at www.viessmann.de



Vitodens 300-W wall mounted gas condensing boiler

Rated heating output range					
50/30 °C	kW	1.9 – 11	1.9 – 19	4.0 – 26	4.0 – 35
80/60 °C	kW	1.7 – 10.1	1.7 – 17.2	3.6 – 23.7	3.6 – 31.7
Dimensions					
Length	mm	360	360	380	380
Width	mm	450	450	480	480
Height	mm	850	850	850	850
Weight	kg	50	50	48	50
Heat exchanger capacity	litre	3.8	3.8	5.6	5.6
Rated heating output range for DHW heating					
	kW	1.7 – 16	1.7 – 17.2	3.6 – 23.7	3.6 – 31.7
Energy efficiency class		A	A	A	A



Vitodens 333-F gas condensing storage combi boiler

Rated heating output range				
50/30 °C	kW	1.9 – 11	1.9 – 19	4 – 26
80/60 °C	kW	1.7 – 10.1	1.7 – 17.2	3.6 – 23.7
Dimensions				
Length	mm	595	595	595
Width	mm	600	600	600
Height	mm	1425	1425	1425
Weight	kg	110	110	113
Stainless steel loading cylinder	litre	100	100	100
Rated heating output range for DHW heating				
	kW	1.7 – 16	1.7 – 17.2	3.6 – 23.7
Energy efficiency class		A	A	A



Vitodens 343-F gas condensing storage combi boiler

Rated heating output range			
50/30 °C	kW	1.9 – 11	1.9 – 19
80/60 °C	kW	1.7 – 10.1	1.7 – 17.2
Dimensions			
Length	mm	595	595
Width	mm	600	600
Height	mm	2075*	2075*
Weight	kg	162*	162*
Heat exchanger capacity	litre	3.8	3.8
Stainless steel loading cylinder with solar indirect coil	litre	220	220
Rated heating output range for DHW heating			
	kW	1.7 – 16	1.7 – 17.2
Energy efficiency class		A	A

* Vitodens 343-F can be split



Vitodens 200-W wall mounted gas condensing boiler

Type	Gas combi boiler		Gas system boiler				
Rated heating output range 50/30 °C	kW	5.2 – 26	5.2 – 35	3.2 – 13	3.2 – 19	5.2 – 26	5.2 – 35
	kW	4.7 – 23.7	4.7 – 31.7	2.9 – 11.8	2.9 – 17.2	4.7 – 23.7	4.7 – 31.7
Dimensions							
Length	mm	360	360	360	360	360	360
Width	mm	450	450	450	450	450	450
Height	mm	850	850	850	850	850	850
Weight	kg	46	48	41	41	43	47
Heat exchanger capacity	litre	2.4	2.8	1.8	1.8	2.4	2.8
Rated heating output range for DHW heating	kW	4.7 – 29.3	4.7 – 33.5	2.9 – 16	2.9 – 17.2	4.7 – 23.7	4.7 – 31.7
Energy efficiency class		A	A	A	A	A	A

Type	Gas system boiler						
Rated heating output range 50/30 °C	kW	12 – 45	12 – 60	20 – 80	20 – 100	32 – 125	32 – 150
	kW	10.9 – 40.7	10.9 – 54.4	18.1 – 72.6	18.1 – 91	29 – 114	29 – 136
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
Heat exchanger capacity	litre	7	7	12.8	12.8	15	15
Energy efficiency class		A	A	A	A	A	A



Vitodens 222-W wall mounted gas condensing boiler

Rated heating output range 50/30 °C	kW	3.2 – 13	3.2 – 19	5.2 – 26	5.2 – 35
	kW	2.9 – 11.8	2.9 – 17.2	4.7 – 23.7	4.7 – 31.7
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
Heat exchanger capacity	litre	1.8	1.8	2.4	2.8
DHW loading cylinder	litre	46	46	46	46
Rated heating output range for DHW heating	kW	2.9 – 17.2	2.9 – 17.2	4.7 – 29.3	4.7 – 33.5
Energy efficiency class		A	A	A	A



Vitodens 222-F gas condensing storage combi boiler

Type	B2TA	B2TA	B2TA	B2TA	B2SA	B2SA	B2SA	
Rated heating output range 50/30 °C	kW	3.2 – 13	3.2 – 19	5.2 – 26	5.2 – 35	3.2 – 13	3.2 – 19	5.2 – 26
	kW	2.9 – 11.8	2.9 – 17.2	4.7 – 23.5	4.7 – 31.7	2.9 – 11.8	2.9 – 17.2	4.7 – 23.7
Dimensions								
Length	mm	595	595	595	595	595	595	595
Width	mm	600	600	600	600	600	600	600
Height	mm	1425	1425	1425	1625	1625	1625	1625
Weight	kg	129	129	132	141	139	139	142
Heat exchanger capacity	litre	1.8	1.8	2.4	2.8	1.8	1.8	2.4
Loading cylinder	litre	100	100	100	130	–	–	–
DHW cylinder with internal indirect coils	litre	–	–	–	–	130	130	130
Rated heating output range for DHW heating	kW	2.9 – 16	2.9 – 17.2	4.7 – 29.3	4.7 – 33.5	2.9 – 17.2	2.9 – 17.2	4.7 – 23.7
Energy efficiency class		A	A	A	A	A	A	A



Vitodens 242-F gas condensing storage combi boiler

Rated heating output range				
50/30 °C	kW	3.2 – 13	3.2 – 19	5.2 – 26
80/60 °C	kW	2.9 – 11.8	2.9 – 17.2	4.7 – 23.7 ^{*1}
Dimensions				
Length	mm	595	595	595
Width	mm	600	600	600
Height	mm	1875	1875	1875
Total weight				
Heating module	kg	161	161	165
Loading cylinder module	kg	42	42	46
	kg	95	95	95
Enamelled loading cylinder with solar indirect coil				
	litre	170	170	170
Energy efficiency class				
		A	A	A

^{*1} 29.3 kW for DHW heating



Vitosolar 300-F gas condensing storage combi boiler with Vitodens 300-W

Rated heating output range					
50/30 °C	kW	1.9 – 11	1.9 – 19	4.0 – 26	4.0 – 35
80/60 °C	kW	1.7 – 10.1	1.7 – 17.2	3.6 – 23.7	3.6 – 31.7
Dimensions					
Length	mm	1623	1623	1643	1643
Width	mm	1052	1052	1052	1052
Height	mm	1875	1875	1875	1875
Weight					
	kg	347	348	346	348
DHW output					
	kW	1.7 – 16	1.7 – 17.2	3.6 – 23.7	3.6 – 31.7
Energy efficiency class					
		A+ *	A+ *	A+ *	A+ *

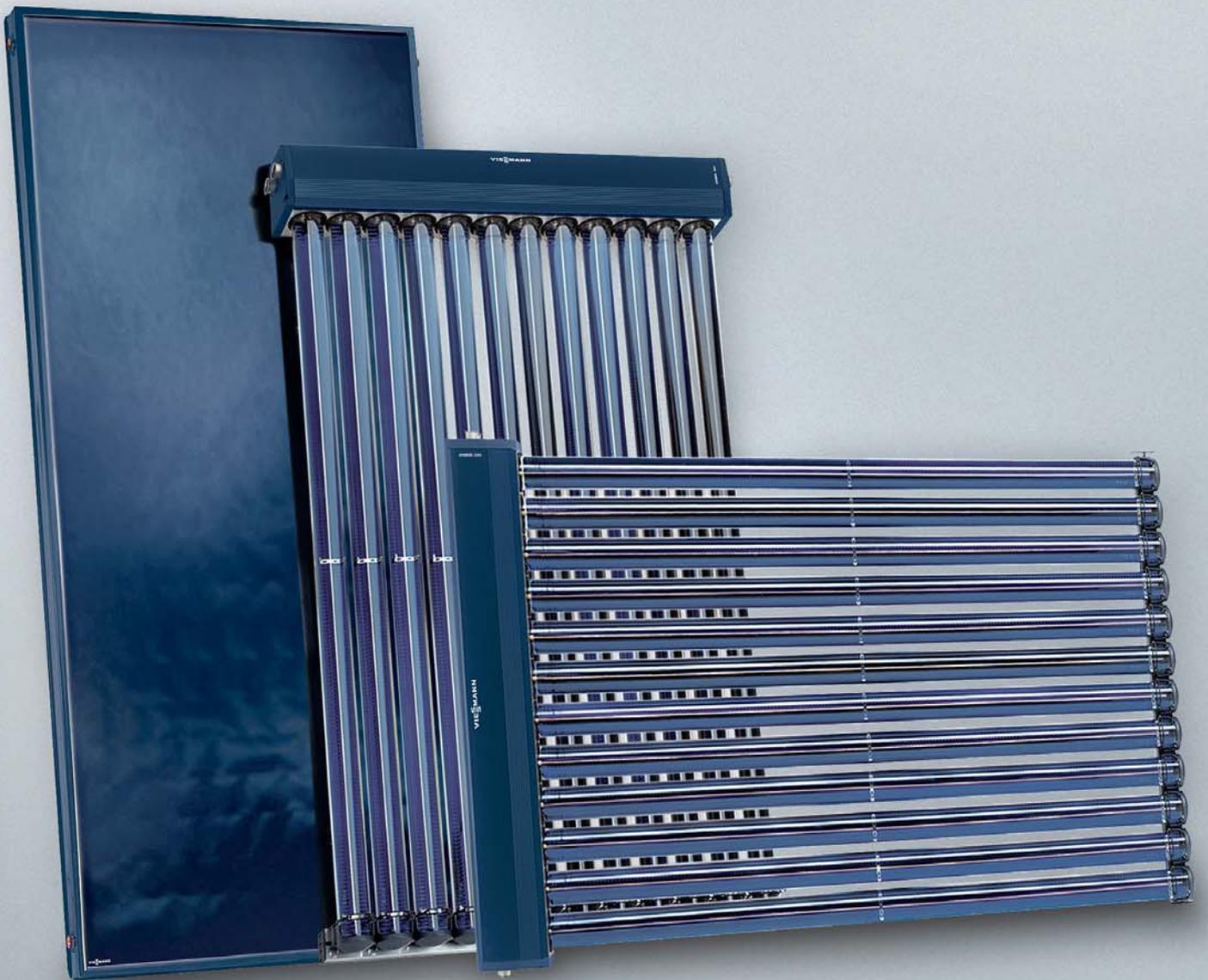
* in conjunction with 4 Vitosol 200-F flat-plate collectors



Vitosolar 300-F gas condensing storage combi boiler with Vitodens 200-W

Rated heating output range					
50/30 °C	kW	3.2 – 13	3.2 – 19	5.2 – 26	5.2 – 35
80/60 °C	kW	2.9 – 11.8	2.9 – 17.2	4.7 – 23.7	4.7 – 31.7
Dimensions					
Length	mm	1623	1623	1623	1623
Width	mm	1052	1052	1052	1052
Height	mm	1875	1875	1875	1875
Weight					
	kg	340	341	343	345
DHW output					
	kW	2.9 – 16	2.9 – 17.2	4.7 – 23.7	4.7 – 31.7
Energy efficiency class					
		A+ *	A+ *	A+ *	A+ *

* in conjunction with 4 Vitosol 200-F flat-plate collectors



A perfect match – system technology

The convenient controls and perfectly matching Viessmann system technology offer you maximum reliability, flexibility and efficiency.

"The whole is greater than the sum of its parts". In accordance with this philosophy, Viessmann supplies more than high quality, reliable and effective heating components. In fact, all products are part of a matching total concept, where all components complement one another. After all, only perfect interaction between all system components 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: from the Vitotronic control unit with wireless remote control and powerful Vitocell DHW cylinders for the highest DHW convenience, right up to high grade solar thermal systems for cost effective central heating backup.



Solar thermal and photovoltaic

Use the free energy from the sun to heat your domestic hot water and back up your central heating, as well as to generate power.

Page 56



DHW cylinders

DHW convenience for every demand – with the Vitocell range of cylinders from Viessmann, you have an enormous choice.

Page 60



Control convenience

Clear, convenient, intelligent – the Vitotronic offers you perfect functionality for fast and precise control over your heating system.

Page 62



Vitotrol App and smartphone

With the Vitotrol app and a smartphone, controlling Viessmann heating systems couldn't be easier.

Page 64



System accessories

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

Page 66



Tube collectors can be installed anywhere.

Solar thermal systems – free solar energy

Complement your new gas condensing boiler with the right solar technology to save twice as much precious heating energy.

Today, a new heating centre and a solar thermal system go hand in hand, and there are good reasons for this. In the summer, almost the entire energy demand for DHW heating can be covered by solar collectors. In spring and autumn, this system can also back up your central heating system. This means, in a new house, you can save up to 35 percent of the total heating energy required.

Calculated over the year, 60 percent of energy can be saved on DHW heating alone. This is because solar energy is free, and daylight is converted into heat by the collector even when the sun is not shining directly onto the roof.

The principle is quite simple

To capture solar rays and then utilise them efficiently sounds more difficult than it is. Of course, a great deal of innovative technology and experience are required. Solar thermal systems "collect" solar energy in the flat-plate or tube collectors. There, a heat transfer medium is heated by insolation and circulated through a hot water cylinder. Inside the cylinder, the heat is transferred via an indirect coil to the domestic hot water or to the heating circuit. Thereafter, the cooled liquid is returned to the collector, and the cycle begins again. The boiler provides reheating if there is insufficient insolation, e.g. in winter.

The Vitosol range offers solar collectors for every aspiration and every budget. Installation on the roof or wall opens up a variety of design options.

Flat-plate and tube collectors

The Vitosol 200-F flat-plate collector is distinguished by its high quality, lasting operational reliability and high efficiency. With its extremely translucent anti-reflective glass and copper absorber with highly selective coating, the high performance Vitosol 300-F flat-plate collector utilises intensive insolation particularly efficiently.

The Vitosol 200-T vacuum tube collector is characterised by its particularly effective thermal insulation and high efficiency resulting from its Sol-titanium coating. It can be installed anywhere.

The Vitosol 300-T is a top quality, high performance collector that is designed around the heat pipe principle.

Generate your own power with Vitovolt

By installing a Viessmann photovoltaic system, anyone can generate their own power. The conversion of free solar energy into power is financially rewarding in relation to on-site consumption, and when combined with power storage systems also provides independence from public grids.

Benefit from public subsidies

Your Viessmann trade partner is well informed about current subsidy programmes and will supply you with the most important contact details for obtaining information and application forms.

Or simply take a look on the internet:
www.viessmann.de/foerderprogramme.



The Vitosol 200-F flat-plate collector features frost and hail-proof safety glass, as well as corrosion-resistant components made from stainless steel and aluminium. The frames are available on request in any RAL colour.



The Vitosol 300-T and Vitosol 200-T vacuum tube collectors stand out thanks to their superior reliability and long service life.



Vitovolt photovoltaic modules from Viessmann also provide a high level of power generation in partially shaded areas.

Solar energy generation



- 1 Vitodens 300-W wall mounted gas condensing boiler
- 2 Vitocell 360-M multi mode combi cylinder for DHW heating and central heating backup with attached Solar-Divicon
- 3 Vitosol 200-F flat-plate collectors

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

DHW heating and central heating backup with solar energy

Solar thermal systems are the perfect choice for DHW heating and central heating backup. By harnessing freely available solar energy, you can save on the use of fossil fuels. What's more, investments in solar thermal energy pay off in just a few years.

You basically have the option of using solar energy for DHW heating and central heating backup. In any case, savings on oil or gas are considerable, as you will be able to reduce your annual energy consumption by 60 percent. This is the energy that would otherwise be required for your day-to-day DHW heating. If you combine the heating of DHW and heating water, you will save around 35 percent of the total energy required – every year.

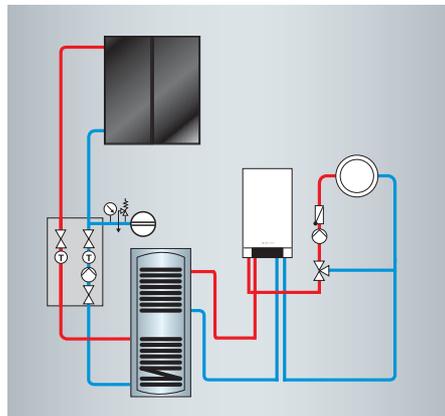
Solar thermal system with dual mode DHW cylinder

The dual mode DHW cylinder is key to this type of system. When there is sufficient insolation, the heat transfer medium in the solar thermal system heats up the water in the DHW cylinder via the lower indirect coil.

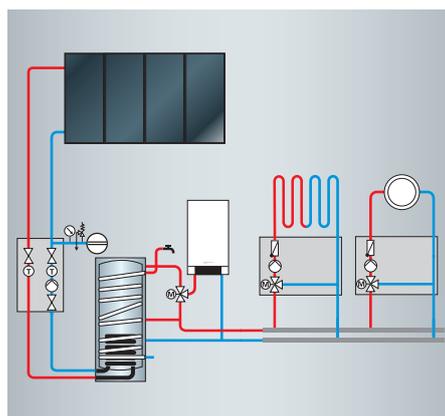
When the temperature drops through water being drawn off, such as for a bath or shower, the boiler will start – if necessary – to provide additional heating via the second circuit.

Solar thermal system for DHW heating and central heating backup

The heat transfer medium heated up in the solar collectors can also be used to heat the heating water, as well as for DHW heating. For this, the heating circuit, via a heat exchanger, uses the water in the solar cylinder that is continuously heated by the solar collectors. The control unit checks whether the required room temperature can be achieved. If the temperature is below the set value, the boiler will also start.



Solar DHW heating



Solar DHW heating and central heating backup

With Viessmann, heating and solar technology come entirely from a single source. All components are perfectly matched.



The Vitocell range from Viessmann offers the right DHW cylinder for every demand and each cylinder is perfectly matched to the respective gas boiler or solar thermal system.

DHW convenience for every demand

With the Vitocell DHW cylinders, we offer you a convenient solution for supplying your household with hot water – the perfect extension to your new gas boiler.

The demand for hot water is completely different in every household. It varies according to the number of residents and their bathing or showering habits. For example, if three members of a family set off for work and school at the same time, lots of hot water needs to be continuously available for showers in short order.

Those who prefer a bath will also want to have enough hot water to fill the tub.

The DHW cylinder should also be able to provide sufficient water if, in an apartment building for example, hot water is drawn from more than one outlet at the same time.

Vitocell DHW cylinders fulfil these requirements in every respect and can also meet every aspiration where equipment levels are concerned. In all instances, the installation of a solar thermal system is recommended to save energy and heat the water without cost.

The right DHW cylinder for every demand

In the Vitocell cylinder range, you'll find exactly the right DHW cylinder for your requirements. Subject to DHW demand and installation options, select a floorstanding DHW cylinder, or a cylinder for installation adjacent to, or below, the boiler.

Hygienic DHW provision

The quality of the inner surface of the DHW cylinder is crucial to providing DHW hygienically. For this reason, Viessmann relies on two high quality materials: Ceraprotect enamel coating for safe, lasting protection against corrosion in the Vitocell 100 range, and stainless steel in the Vitocell 300 range for outstanding hygiene standards.

Vitocell 100 with Ceraprotect enamel coating

The Vitocell 100, with Ceraprotect enamel coating, meets all requirements for convenient, economical DHW heating and is amongst the top selling enamelled DHW cylinders. The Ceraprotect enamel coating provides the DHW cylinder with safe and lasting protection against corrosion.

Vitocell 300 made from stainless steel

Vitocell 300 DHW cylinders, made from corrosion-resistant stainless steel, meet some of the most stringent hygiene standards.



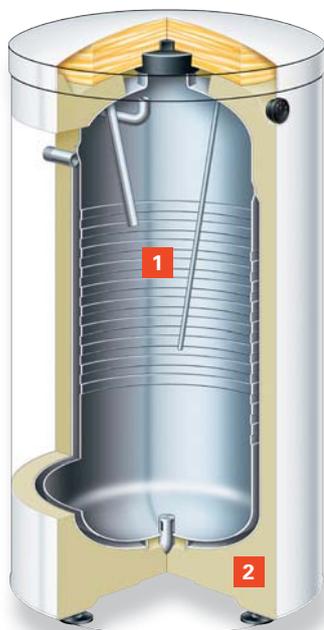
Vitodens 300-W wall mounted gas condensing boiler with adjacent Vitocell 300-W DHW cylinder

Stainless steel is used in kitchens, laboratories, hospitals and the food processing industry for good reason, as it offers excellent hygienic properties. Its homogeneous surface retains these characteristics even after many years of use.

The indirect coils inside Vitocell DHW cylinders reach right down to the cylinder floor. This enables them to heat the entire water content and make particularly economical use of the full cylinder capacity.

Take advantage of these benefits

- Vitocell 100 with Ceraprotect enamel coating. Capacity: 80 to 1000 litres
- Vitocell 300 made from stainless steel. Capacity: 130 to 500 litres
- Dual mode and multi mode DHW cylinders for integration of solar thermal systems for DHW heating and central heating backup
- Internal indirect coils reaching right to the cylinder floor heat the entire water content
- Low heat losses due to highly effective thermal insulation



Vitocell 300-W

- 1 High-grade stainless steel cylinder
- 2 Low heat losses thanks to highly effective thermal insulation



Vitotronic control unit for the Vitodens 300-W wall mounted gas condensing boiler and Vitodens 333-F and Vitodens 343-F gas condensing storage combi boilers



5-inch colour touchscreen on the Vitotronic 200 (HO2B) for Vitodens 300-W, 333-F, 343-F

Vitotronic – everything perfectly under control

With the Vitotronic control unit, operating your Viessmann boiler is as simple as making a phone call.

The Vitotronic 200 control unit for Vitodens 300-W/333-F/343-F not only features exceptionally high operating convenience, it also offers users a complete overview of energy consumption, as well as solar yields over different periods – at any time and from anywhere.

The energy cockpit makes energy consumption transparent

The energy cockpit of the Vitotronic 200 control unit clearly documents the current energy yield of the solar thermal system, in addition to the energy consumption of the heating system on its 5-inch colour touchscreen.

It also informs users about gas consumption for central and DHW heating, alongside the power consumption of the heat generator. The solar yield will be displayed if a solar thermal system is connected.

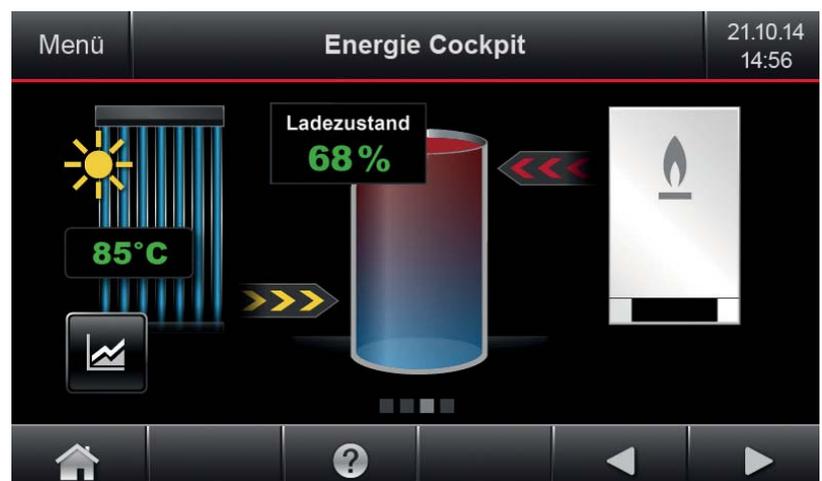
Complete overview – even from afar

The integral internet function enables the control unit to be accessed from anywhere using the Vitotrol Plus app.

The new Vitodens 300-W/333-F/343-F gas condensing boilers and the Vitosolar 300-F with Vitodens 300-W are already equipped with smart energy management via the Vitotronic 200.

Take advantage of these benefits

- High levels of operating convenience through colour touchscreen with plain text supported by graphics
- Energy cockpit with visualisation of energy generation and consumption for solar and gas with histograms
- Direct networking through LAN interface and operation via Vitotrol Plus app
- Optimum integration of the solar thermal system with indication of the heat-up condition, in conjunction with an intelligent system cylinder (Vitocell 100 (CVUC-A) and the Vitosolar 300-F)
- Commissioning and service by Viessmann trade partners



The energy cockpit indicates the proportion of each type of energy used for DHW heating.



Simple, intuitive operation of the Vitodens 300-W wall mounted gas condensing boiler by smartphone whether you're at home or away

Everything under control – from wherever you are

Easy, intuitive operation of Viessmann boilers via smartphones and tablets

Apps for smartphones and tablets are everyday tools that make our life easier. You can enjoy the benefits of mobile operation of your own heating system with the Vitotrol Plus app. It's so easy to control your heating whether you're at home or away – in the car, on the train or even in the office.

Convenient, intuitive operation

It could hardly be easier to operate. The start screen shows the outside and set room temperatures, as well as the operating program, date and time.

Changes are made directly via the screen. For example, you might want to extend the heating time for a late night party, or switch to economy mode when you're away from home for a long period.

Geolocation for individual heating convenience

Using the geolocation function of their smartphone, each occupant can create their own heating profile. The heating system will apply the warmest heating profile if several family members are at home at the same time.

Internet inside is supplied as standard in Vitodens 300-W/333-F/343-F

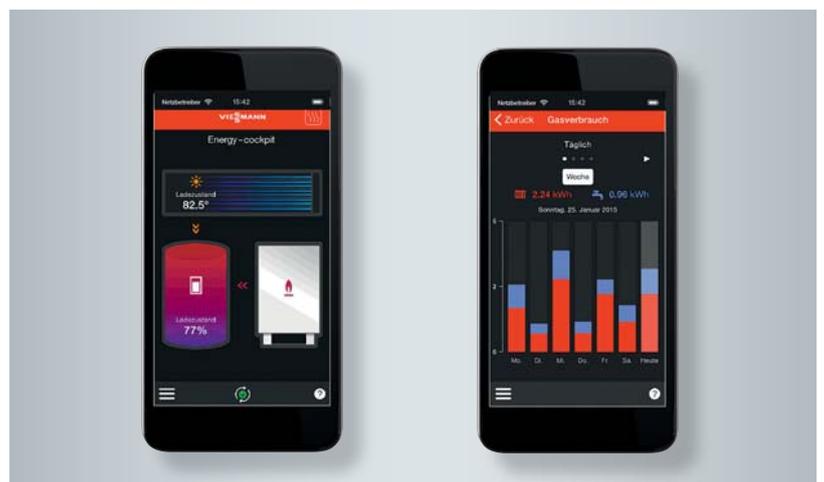
A PCB is already integrated in Vitodens 300-W/333-F/343-F gas condensing boilers, enabling direct connection to the domestic DSL router. The Ethernet interface is accessible from the outside without having to open the device.

Stay connected with Vitocom 100

For app operation, all additional boilers must be fitted with a Vitotronic 200 control unit. The Vitocom 100 (type LAN1) is also required. The Vitocom 100 communication module (type LAN1) is the interface between the heating system and the internet.

Take advantage of these benefits

- Free downloads from the Apple App Store (iOS) and Google Play Store (Android)
- Easy intuitive operation via smartphones and tablets
- Operating your heating system at home or away
- Regular updates



Convenient displays on a smartphone: Solar collectors will heat the DHW cylinder up to 82.5 °C – so far, it is heated to 77 percent (see left). On the right, the gas consumption for central heating and DHW is shown during the course of a week.



Vitaset – everything from a single source

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

With the Vitaset range, Viessmann provides you with all the components required for a domestic heating system, from a single source. You benefit because everything matches and can be combined into a single homogeneous system that meets your individual requirements. What's more, your ideas can be implemented swiftly and safely, as all the parts are made available quickly and directly to your Viessmann heating contractor and are of the highest quality.

Something that all components in the extensive range of accessories from Viessmann share is the use of high grade, tested materials and perfect manufacture – this ensures that they provide truly safe and reliable solutions.

Vitaset – innovative technology where all components interact perfectly. Ask your local Viessmann trade partner, who will be happy to advise you on the many application options available to you with Vitaset.

Heat generation

- Diaphragm expansion vessel for sealed unvented heating systems, colour: Vitosilver, vessels from 25 to 140 litres, also in pure white (RAL 9010)
- Shut-off valves, safety valves, vent valves
- Small water softening systems
- Stainless steel flue systems, single and twin wall
- Mobile electric heaters

DHW heating

- Drinking water filters
- Diaphragm expansion vessels for DHW installations
- Water softening systems
- DHW circulation pumps
- Diaphragm safety valves for sealed DHW cylinders
- Freshwater modules for DHW heating according to the instantaneous water heater principle

Heat distribution

- Shut-off valves, non-return valves
- Low loss headers
- Heating mixers
- Circulation pumps
- Heating water buffer cylinder
- Plate heat exchangers for heat pump systems
- Residential and local heating network transfer stations

Heat transfer

- Compact valve, compact and centre connection radiators, designer panel radiators, low-temperature radiators and bathroom radiators
- Radiator accessories
- Underfloor heating systems



Vitaset offers you all the components you need to modernise your heating system.

System accessories from Viessmann – complete heating systems from a single source

The Vitaset range offers you products from a single source to operate your heating system in complete safety.

Every Vitaset product meets the high quality demands you have come to expect from Viessmann. So when installing your new heating system, don't settle for anything less. The range of accessories is a perfect match for our heating systems. Here is an overview:

Universal radiators

You can recognise the quality of these radiators by their high grade, long lasting paint finish. With their neutral finish in white RAL 9016, our universal high output radiators will blend harmoniously into any room. On request, all universal radiators can also be supplied in special colours. These radiators are easy to clean. For thorough cleaning, simply remove the top grille.

Panel radiators

Their brilliant, completely smooth design makes flat panel radiators an exceptionally aesthetic design element, which is subtle yet effective. The technical concept behind them is optimised for the demands of energy efficient heating. The resistant, plastic-coated surface is easy to clean and gleams in white RAL 9016.

Bathroom radiators

Our innovative bathroom radiators with their slender pipe elements look elegant and light, and will blend into any bathroom. A variety of designs will help you to make your bathroom stylish, and will keep your towels nice and warm.

Alongside their connection to the heating system, these bathroom radiators can also be operated electrically – a heater rod can then provide the necessary heating output. It is even possible to combine both technologies, i.e. the central heating connection for the heating season, and the heater rod for cooler summer days, when you want to take away that early morning chill in your bathroom.

Thermostatic valves

Not all thermostats are the same. The use of high grade materials and precise temperature selection give Viessmann controllers the edge. Last, but not least, their stylish design adds that extra special touch.



Beautifully finished and pleasing to the eye: Vitoset bathroom radiators come in many different shapes and sizes. They also make a stylish design statement.



Greater convenience: Viessmann thermostatic valves enable precise temperature selection and are characterised by a design that is both elegant and functional.



With our trade partners, you're in good hands

For Viessmann, proximity to trade partners is the basis of the company's success. You too can benefit from their expertise if you choose Viessmann heating technology.

You can receive advice and have access to sales, installation and customer service exclusively via Viessmann trade partners, who are trained regularly by the company, and have in-depth knowledge of its products.

Some service examples

- Free, no-obligation and individual advice, even on site
- Clear calculation of heating cost savings after modernising your heating system – also in combination 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 heating and DHW demand for your household or property
- Information about the 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 your new heating system and solar thermal system
- Help when applying for subsidies

Technology from Viessmann – subsidies from the government

You don't just save on running costs. Energy saving and environmentally responsible heating technology is also financially supported by local, regional and national bodies, as well as by your local power supply utility. So find out more about the various subsidies that may be on offer. Up to date information can be found on the internet at www.viessmann.de/foerderprogramme, or ask your heating contractor.

Take advantage of the comprehensive service you can expect from your heating contractor.

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 your modernisation project easier, and your financial planning remains flexible. The special advantage for you is that with Viessmann's favourable terms, you generally save much more on heating costs than you spend on finance.

Please note:

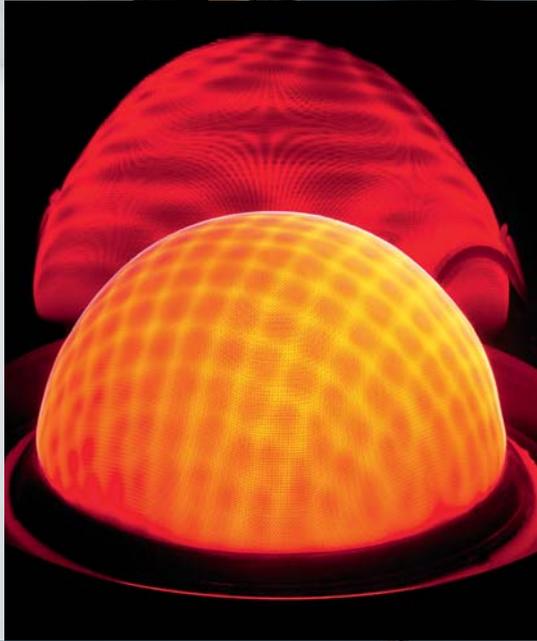
Applications for subsidies and finance must be made before the heating and/or solar thermal system is purchased. Subsidies and finance agreements cannot be arranged retrospectively. Detailed information regarding the Viessmann finance model can be obtained from your local trade partner.



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.

The company



Viessmann – climate of innovation

Viessmann is one of the world's leading manufacturers of intelligent, convenient and efficient systems for heating, cooling and decentralised power generation.

As a third generation family run business, Viessmann has been supplying highly efficient and clean heating systems for many decades.

A strong brand creates trust

Together with our brand label, our key brand message is 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 also a promise of enhanced product benefits and, at the same time, an obligation to protect the environment.

Acting in a sustainable manner

For Viessmann, taking responsibility signifies a commitment to acting sustainably.

This means harmonising ecology, economic concerns and social responsibility so that

the needs of today are met without compromising the quality of life of future generations.

We consider climate protection, environmental responsibility and resource efficiency to be key priorities throughout our company, which has more than 11,500 employees worldwide.

Example of Best Practice

With its strategic sustainability project, Viessmann demonstrates at its own head office in Allendorf (Eder) that the energy and climate policy goals set for 2050 can in fact be achieved today with commercially available technology. The results speak for themselves:

- Expansion of renewables to 60 percent
- CO₂ emissions reduced by 80 percent

The long term goal is for the company to meet all its own heating energy requirements by sustainable means.



2009/2011/2013:
German Sustainability Award
for Production/Brand/Resource
Efficiency



Energy Efficiency Award 2010

Viessmann Group

Company details

- Established in: 1917
- Employees: 11,500
- Group turnover: 2.2 billion euros
- Export share: 56 percent
- 22 production companies in 11 countries
- 74 countries with sales companies and branches
- 120 sales offices worldwide

The comprehensive product range from the Viessmann Group for all energy sources and output ranges

- 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
- Photovoltaics
- Accessories
- Refrigeration systems



climate of innovation

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9449 594 - 8 GB 08/2015

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