VIESMANN

climate of innovation

Heating with wood

Heating systems ◄

Industrial systems

Refrigeration systems

Heating with wood – the most natural fuel in the world

The rising cost of fossil fuels and growing environmental awareness are resulting in an ever-increasing demand for renewable forms of energy. On the following pages, we will provide you with comprehensive information about efficiently burning wood, a sustainable fuel, in advanced boilers.

A wood boiler is a good alternative to heating with oil or gas. Alongside environmental considerations, there are also economic reasons for relying on wood: As an indigenous fuel, wood is very cost efficient and not subject to wide price fluctuations.

Thanks to advanced Viessmann technology, heating with wood is now both efficient and convenient. Whether you are looking for an auxiliary appliance or a complete heating system, the Viessmann range offers flexible solutions, fired with logs or pellets, depending on the type of boiler.


VIESMANN

About this brochure

Viessmann wood boilers meet the demand for an efficient and economical heating system. This brochure provides information about our current range and contains plenty of useful facts about accessories, service, available subsidies and finance options.

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.

Wood is a good alternative

Based on today's energy prices and taking into account the overall investment outlay, a wood heating system is an economical alternative. Viessmann wood boilers are highly efficient and economical in their fuel consumption.

Viessmann wood boilers are suitable both as a sole heat generator and as a supplement to oil or gas boilers. By installing a wood boiler, spending on oil and gas is reduced significantly so the boiler starts paying for itself almost immediately. You will be making a positive contribution towards the sustainable protection of our climate, as heating with wood is CO_2 neutral. This means that only as much carbon dioxide is released into the atmosphere as the wood absorbed while it was growing.

Viessmann has the right solution for you.

Viessmann offers energy saving heating systems for all applications and fuel types.

Did you know?

Wood heating systems are offered for a wide range of wood fuels.
See below for information about the properties of this fuel and how it should be stored.

Wood storage
The combustion of moist wood is not only uneconomical, it can also lead to high emissions and tar deposits inside the chimney stack due to low combustion temperatures. Wood reaches its highest calorific value after being dried for at least three years in a well-protected place.

Here are a few tips:
- Split round logs with a diameter of 10 cm or more
- Stack the logs in a ventilated and preferably sunny spot underneath a rain canopy
- If possible, stack logs with generous air gaps to enable flowing air to absorb the dissipating moisture
- Stack logs on a support timber so moist air can escape
- Never store freshly cut wood in a cellar, as air and sunshine are required for drying. However, dry wood can be stored in ventilated cellars.

Pellet properties
Only 100 % untreated wood remnants are used in the manufacture of wood pellets to ENplus and ENISO 17225-2 standards. This raw material is waste matter created by the wood processing industry in large volumes through planing or sawing.

Fine grained wood remnants are compressed under high pressure and formed into pellets, i.e. pressed into a cylindrical shape. The fuel is dry for storage and transport. Completely dry storage conditions are absolutely essential. This is the only way to guarantee optimum and effective combustion.

Pellets are offered in packs and in bulk. In their loose form, pellets are transported by silo tanker and pumped into the storage room via a hose system.

If an oil heating system is to be completely replaced with a new pellet heating system, the room in the cellar used previously to store fuel oil is ideally suited for this purpose.

Questions regarding wood boilers

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.

Can anyone heat with a wood boiler?
Viessmann wood boilers are so convenient to use that they can supply practically any house or apartment building with heat. One important requirement is a dry storage room, as the residual moisture in the wood is one of the crucial factors influencing the combustion quality. Conversions, for example of the chimney stack, are generally not required. Wood heating systems from Viessmann are also a perfect companion for oil and gas heating systems.

Which is better – heating with logs or pellets?
Logs are an ideal choice for those that can acquire the fuel themselves, for example from local forestry operations. The wood needs to be dried correctly, in other words stored until it has the lowest possible residual moisture content. In addition, a heating water buffer cylinder is required to ensure a continuous supply of heat.

Pellets are created under pressure from sawdust. Due to their low residual moisture content they have a high calorific value. Pellets are easy to deliver and store. Dispensing and supplying them to the wood heating system is automatic and convenient.

Where can I obtain wood fuel?
Wood fuels, especially pellets, are now standard fuels for most fuel merchants. Similarly to fuel oil, they are "pumped" into the storage room. This is accomplished quickly and without much effort. Many sawmills and wood processing enterprises also offer pellets. You can obtain logs at favourable prices from forestry operators or farms with forestry enterprises attached.

Logs
Logs are pieces of wood (hard and softwood) from forestry operations and countryside management.

Wood briquettes
Wood briquettes are compressed wood remnants. The size and density of the wood briquettes must be matched to the charging system used.

Wood remnants
Wood remnants are very diverse in terms of consistency and size; the remnants come as a mix of hard and softwoods.

Woodchips
Woodchips are small pieces (e.g. chips) of natural wood, with or without bark.
The relevant fuel standard is EN ISO 17225-4.

Wood pellets
Pellets are the most compact form of wood energy and have a high calorific value. Ensure that the pellets conform to standard branded quality (such as ENplus-A1 or EN ISO 17225-2 quality class A1).

The Vitoligno range

Logs or pellets: the Vitoligno range has everything covered.

Whether as an auxiliary or complete heating system, using logs or pellets, Viessmann offers the full product range for heating with wood. By choosing a Vitoligno wood boiler, you'll always be on the safe side, as there are so many reasons in its favour:

- Highly reliable
- Long service life
- Convenient DHW and central heating
- Independence from oil and gas
- Cost savings through economical energy consumption
- Pellet heating systems and solar technology make for an ideal combination

Vitoligno 300-H
Boiler for pellets
and woodchips
50 to 101 kW

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Vitoligno 200-S
High performance
wood gasification boiler
for logs up to
50 cm long
20 to 50 kW

Page 18

Vitoligno 100-S
Log gasification boiler
for logs 25 and 50 cm long
20 kW

Page 20

Vitoligno 300-C
Pellet boiler
2.4 to 12 kW

Page 12

Vitoligno 250-S
Log boiler for manual
charging with logs,
wood briquettes and
wood remnants.
Hopper width
550 mm: 40 to 75 kW
1080 mm: 85 to 170 kW

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Vitoligno 300-P
Pellet boiler
4 to 48 kW

Page 14

Vitoligno 250-F
Wood boiler for manual
charging with logs and wood
briquettes, wood pieces
and loose wood remnants,
as well as for automatic
charging with wood pellets
and woodchips.
35 to 100 kW

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Vitoligno 300-C
2.4 to 12 kW

Vitoligno 300-C, 2.4 to 12 kW

The pellet box can be positioned right next to the Vitoligno 300-C or, if preferred, anywhere inside the room.

German Design Award
WINNER 2015

The Vitoligno 300-C has won the German Design Award 2015 and the 2014 Vorarlberg Innovation Prize.

Compact, fully automatic pellet boiler for new and existing installations.

The compact Vitoligno 300-C pellet boiler is an efficient solution for new build and for existing buildings of low energy standard. In the output range of 2.4 to 8 or 2.4 to 12 kW, the pellet boiler modulates with a ratio of 1:3 and features impressively with low energy consumption. Operating the Vitoligno 300-C is extremely easy, making heating with pellets highly convenient. Almost everything is automatic – from charging with pellets right through to cleaning.

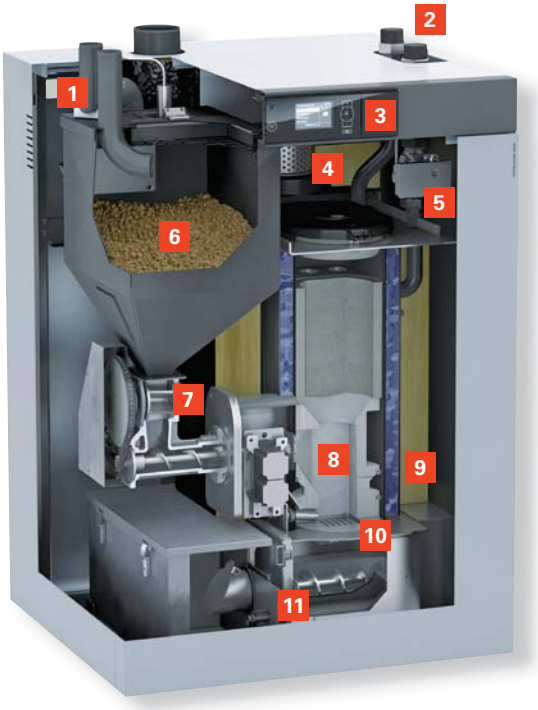
Compact dimensions for flexible siting
The pellet boiler allows flexible and space efficient siting as all components are directly accessible for service and maintenance.
An ideal option is installation in a corner of the boiler room. Viessmann offers a complete range of accessories for pellet storage and transport from a single source.

Convenient automatic functions
Wood pellets burn with few residues – and even these are taken care of automatically by the Vitoligno 300-C. For example, the finned grate in the combustion chamber is cleaned automatically at least once a day.
This guarantees low losses and excellent fuel utilisation.

Automatic ash removal compresses the ash in the ash box and ensures that it has to be emptied no more than twice a year. Due to the sealed ash box, ash removal is also clean and stress-free.

Flexible fuel feed
In its delivered state, the Vitoligno 300-C is equipped as standard with a vacuum system for automatic pellet discharge from the storage room.
The Vitoligno 300-C can be converted quickly and easily from automatic to manual charging. Commercially available bags of pellets can be used for manual charging if necessary, e.g. if there is insufficient space for a pellet storage room.

Matching accessories
For pellet storage rooms, a modular 4- or 8-way wand changeover is available. It is controlled by the Ecotronic and ensures an even discharge of pellets from the storage room by changing between wands automatically. Installation of the wand system is flexible and suitable for a wide range of different storage spaces. It ensures optimum use of the pellet storage room.



Vitoligno 300-C

1. Integral suction turbine with connection for supply and return hose
2. All connections at the top – optional corner installation
3. Ecotronic control unit with user prompts
4. Variable speed flue gas fan for modulating operation
5. Built-in regulated return temperature raising facility with high efficiency pump
6. Pellet hopper for 32 kg of fuel
7. Rotary lock valve for 100 % burn-back protection
8. Combustion chamber made from high temperature-resistant ceramics
9. Highly effective thermal insulation
10. Self-cleaning finned grate made from stainless steel
11. Automatic ash removal with large ash box

Compact and fully automatic Vitoligno 300-C pellet boiler for buildings with good thermal insulation and limited heat demand (e.g. low energy houses)

For manual charging from pellet sacks, the pellet box can be positioned right next to the Vitoligno 300-C or, if preferred, anywhere inside the room. A 260 kilogram load is sufficient for up to ten days.

Intelligent Ecotronic control unit
Operating the Vitoligno 300-C is easy with the weather-compensated digital Ecotronic control unit. Up to three heating circuits can be controlled with the standard version. The boiler with pellet supply, the heating circuits and the cylinder temperature can all be controlled intuitively. Adjusting all relevant parameters is made easy by the clear display with graphic capability and multiple line plain text support.

Prepared for solar
In combination with a solar thermal system, current solar data is also shown on the display. The collector and cylinder temperature are part of this data, as are the operating hours of the solar thermal system.

Take advantage of these benefits

- Fully automatic pellet boiler with a rated heating output range of 2.4 to 12 kW
- Efficiency of up to 95.3 % for excellent utilisation of wood energy
- Innovative combustion technology for lowest dust emission levels – meets the first German Immissions Order (1st BImSchV), level 2
- Flexible, space saving installation – may be sited in a corner
- Can be located anywhere as its operation does not depend on ambient air
- Low power consumption – automatic ignition with ceramic heating element
- Ecotronic control unit with plain text user prompts and automatic function monitoring, plus solar and buffer cylinder charging control
- Automatic ash removal from the combustion chamber through a stainless steel finned grate ensures highly reliable operation and long cleaning intervals
- Ash box requires emptying only once or twice a year
- High operational reliability provided by rotary lock valve, for 100 % burn-back protection
- Flexible fuel feed, e.g. pellet vacuum system or manual charging with pellet sack
- Extensive accessories for pellet supply and storage

For specification, see page 26

Vitoligno 300-P
4 to 48 kW

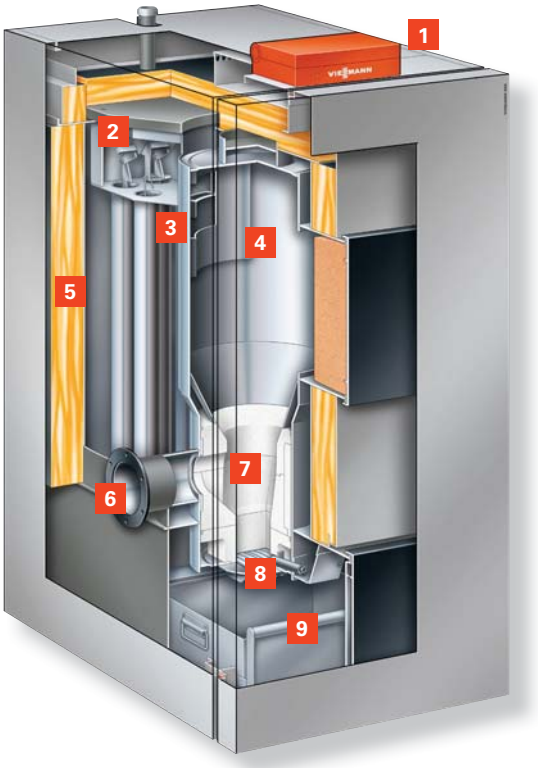
Pellets are the ideal fuel: futureproof, inexpensive, easy to store and CO_2 neutral

When it comes to heating with pellets, the Vitoligno 300-P sets new standards in convenience, efficiency and safety.

The Vitoligno 300-P pellet boiler has been fully developed and manufactured in-house by Viessmann. All the experience and expertise of one of the world's largest heating equipment manufacturers have gone into its production.

Safe, efficient, powerful
The Vitoligno 300-P impresses with its exceptional efficiency and high operational reliability. With an output range from 4 to 48 kW, Viessmann offers a tailor-made solution for every heat demand. Operating the Vitoligno 300-P is extremely easy, making heating with pellets highly convenient. Almost everything is automatic – from charging right through to cleaning.

For modernisation and new build
With its large water content, the Vitoligno 300-P can easily be integrated into existing systems, making it suitable for multi mode operation as part of a modernisation project. The Vitoligno 300-P also provides optimum hydraulic characteristics in new building projects.



Transport to the installation site is made easier by virtue of its compact dimensions and robust packaging. Last, but not least, Viessmann offers a complete range of accessories for pellet storage and handling.

Convenient automatic functions
Wood pellets burn with few residues – and even these are taken care of by the Vitoligno 300-P. The heating surfaces in the combustion chamber are cleaned automatically at least once a day. This guarantees low losses and excellent fuel utilisation. The two sealable ash boxes can be emptied with virtually no dust escaping.

Intelligent Vitotronic control unit
More than 40 years of experience in control technology are also reflected in the Vitotronic of the Vitoligno 300-P, which has been specifically adapted to the pellet boiler. Easy to use, it ensures energy saving heating and also incorporates many convenience functions.

The Vitotronic controls all combustion and system components by means of a single programming unit. In combination with a solar thermal system, current solar data is also shown on the display. The collector and cylinder temperature are part of this data, as are the operating hours of the solar thermal system. The boiler with pellet supply, the heating circuits and the cylinder temperature can all be controlled intuitively. Adjusting all relevant parameters is made easy by the clear display with graphic capability and multiple line plain text user prompts.

Vitoligno 300-P

1. Vitotronic control unit
2. Automatic heat exchanger cleaning
3. Variopass: Matching the heating surface to the heat demand
4. Internal return temperature raising facility
5. Highly effective thermal insulation
6. Connection flange for feed screw conveyor
7. Combustion chamber made from high temperature-resistant ceramics
8. Finned grate made from stainless steel
9. Large integral ash pan

The Vitoligno 300-P sets new standards in pellet combustion.

Economy functions at the press of a button

The Vitotronic also helps to save electricity and fuel costs. For example, by switching to economy mode for a temperature reduction when you're away, or party mode when central heating is required a little longer than usual. The automatic changeover from summer to wintertime and vice-versa is very convenient. Also integrated are an optimised combustion controller and a heating circuit pump shutdown. The latter activates when heat is no longer required.

Subsidies for environmentally responsible heating

The Vitoligno 300-P meets the current subsidy guidelines. In Germany, its acquisition is therefore supported financially by national, regional and local authorities.

Take advantage of these benefits

- Fully automatic pellet boiler with a rated heating output range of 4 to 48 kW
- Efficiency of up to 95 percent for excellent utilisation of wood energy
- Optimum energy utilisation in all output ranges through automatic matching of the three-pass heating surface to the actual heat demand by the patented Variopass principle
- Automatic ash removal from the combustion chamber through a stainless steel finned grate ensures high operational reliability and long cleaning intervals
- Charging unit, comprising a rotary lock valve and feed screw conveyor, for precise, economical fuel dosing and 100 percent burn-back protection
- Automatic and energy saving ignition with ceramic heating element
- Digital control unit with plain text display and user prompts, automatic function monitoring, plus solar and buffer cylinder charging control
- Extensive accessories for pellet supply and storage

For specification, see page 26

Fully automatic
biomass boiler

Vitoligno 300-H
50 to 101 kW

Pellets are the most tightly compressed form of wood energy.

Woodchips are small pieces of natural wood, with or without bark.

Convenient central heating unit for flexible charging with pellets or woodchips.

The Vitoligno 300-H biomass boiler has been designed for great flexibility in terms of application in the medium output range. The heating centre can be charged with either pellets or woodchips. With many automatic functions, operation of the Vitoligno 300-H has some particularly convenient features, including efficient automatic ignition with low power consumption and fully automated ash removal from the grate and heat exchanger. Because of the arrangement of the heat exchanger, very little ash is deposited, making long cleaning intervals possible. Emptying the large sealable and mobile ash box is an almost entirely dust-free process.

High efficiency
With its weather-compensated control unit and a modulation range of 1:3, the biomass boiler adapts its output precisely to the current heat demand. This means that the Vitoligno 300-H has impressively low fuel consumption.

Low, futureproof emission levels
Variable combustion means high efficiency and low emissions, with regulated primary and secondary air supply. Fuel gases are combined with secondary air in the flame tube and because of its constricted diameter, they are mixed very well. This ensures long burn-out times and thus complete combustion.

Intelligent control and extensive range of accessories
The integral Ecotronic control unit can regulate up to three heating circuits with mixer, two heating circuits with mixer and DHW heating, or one heating circuit with mixer, a solar circuit and DHW heating.

Viessmann is the one-stop shop for accessories designed for the Vitoligno 300-H. This includes systems for the storage and supply of pellets and woodchips, systems for heat distribution and an intelligent buffer management system for efficient stratification of the heating water.

Vitoligno 300-H and pellet hopper with rotary lock valve; rated heating output 80, 99 and 101 kW

1. Sliding grate
2. High temperature-resistant combustion chamber with variable combustion and regulated primary and secondary air supply
3. Vertical heat exchanger with turbulators
4. Fully automated heat exchanger cleaning
5. Integral Ecotronic control unit with commissioning assistant
6. Pellet hopper with rotary lock valve
7. Fuel intake on the left or right as required
8. Mobile ash box
9. Fully automatic ash removal from grate and heat exchanger

Vitoligno 300-H
Heating output: 80, 99 and 101 kW

Vitoligno 300-H with fuel supply from the back; heating output: 50 and 60 kW

Take advantage of these benefits

- Fully automatic biomass boiler with an efficiency of up to 94.9 %
- Heating output: 50 to 101 kW
- Low fuel consumption through high efficiency, modulating operation and weather-compensated control
- Low emissions because of controlled primary and secondary air supply
- Self-cleaning grate for permanently efficient and reliable operation
- Flexible and space-saving installation, with fuel intake either on the left or right (80 kW and above)
- Automatic ignition and combustion control with Lambda probe and flue gas temperature sensor
- Straightforward operation through weather-compensated boiler control unit – user prompts on a plain text display
- Highly convenient operation, with automatic cleaning and ash removal from heat exchanger and grate in a mobile ash box
- Extensive accessories for fuel supply and storage
- Integrated, controlled return temperature raising facility (up to 60 kW)
- Flexible installation, with single sided wall installation to the right (up to 60 kW)

For specification, see page 27

Wood gasification boiler

Vitoligno 200-S
20 to 50 kW

reddot design award

The Vitotrol 350 remote control unit with touchscreen won the prestigious red dot design award from the Design Zentrum Nordrhein-Westfalen in 2014.

The Vitoligno 200-S wood gasification boiler for logs is a good alternative to an oil or gas heating system, since wood is affordable and CO_2 neutral.

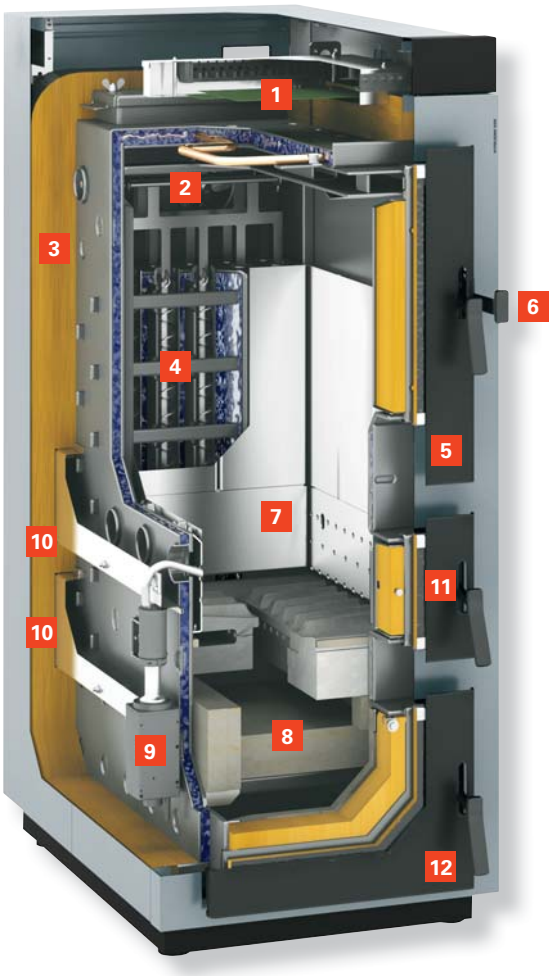
The Vitoligno 200-S is a high quality wood gasification boiler with output from 20 to 50 kW. In the output range 30 to 50 kW it operates in modulating mode, variably adjusting its output to the respective heat demand. The large stainless steel charging hopper can hold logs up to 50 cm long.

Heat-up in a matter of minutes
The heat-up process is complete after just a few minutes. A reduced oxygen feed to the hopper ensures that the logs carbonise rather than burn. The ignitable wood gas then burns cleanly and at high temperatures under supply of secondary air. Secondary wood gas combustion enables the reliable control of full and partial loads.

To ignite the fuel, an automatic ignition device is available as an optional extra. The control unit also enables programming of the required ignition time.

Digital control
The boiler control unit, with user prompts, makes the operation of the Vitoligno 200-S particularly easy. Up to three heating circuits can be controlled with the standard version. Buffer charging management is part of the control system. This ensures the best possible utilisation of the buffer energy whilst optimising the heat transfer by the Vitoligno 200-S. Re-use of residual heat in the burnout provides savings on fuel costs of up to 9 percent.

Easy cleaning
The Vitoligno 200-S heat exchanger is quick and easy to clean using a lever mechanism. The thorough carbonisation ensures that only a few residues remain. This means that ash only needs to be removed every two weeks or so, even during the heating season.



Vitoligno 200-S

1. Fully wired control unit with user prompts
2. Variable speed flue gas fan for modulating operation
3. 100 mm thick thermal insulation
4. Heating surfaces
5. Large hopper door
6. Convenient cleaning of heating surfaces
7. Large hopper
8. Combustion chamber made from durable fireclay
9. Automatic ignition (option)
10. Infinitely variable primary and secondary air
11. Ignition door
12. Ash door

Logs up to 50 cm long are no problem for the high quality Vitoligno 200-S wood gasification boiler.

Remote control with touchscreen

With the Vitotrol 350 touchscreen, the wood gasification boiler can also be controlled from the living space. With the 5" display in 16:9 format, operation could hardly be easier. The Vitotrol 350 wall mounted device enables remote control of the boiler with all the necessary setting options, displaying all relevant information about the boiler and the heating water buffer cylinder.

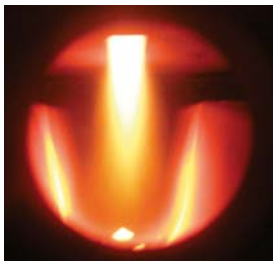
The Vitotrol 350 is more than just a remote control unit, it can also expand the system to include up to 20 additional control extensions (heating circuit, DHW heating) in a single device.

Take advantage of these benefits

- High performance wood gasification boiler, 20 to 40 kW: for logs up to 50 cm long
- Efficiency up to 92 %
- Short heat-up procedure for heat availability in a few minutes
- Modulating operation (30 to 50 kW) for continuous matching to the actual heat demand
- Large stainless steel hopper for long logs and prolonged combustion
- Effective carbonisation gas removal for low smoke recharging after full burnout.
- Particularly clean combustion
- Ecotronic boiler control unit with user prompts, for controlling up to three heating circuits with mixer, commissioning assistant and integral buffer cylinder management system
- Easy lever-operated mechanical cleaning of the heating surfaces and long cleaning intervals
- High operating convenience resulting from automatic ignition (option)
- Vitotrol 350 remote control (option)

For specification, see page 28

Vitoligno 100-S
20 kW wood gasification boiler



Gasification technology of the Vitoligno 100-S

The Vitoligno 100-S log gasification boiler is an ideal companion appliance for an existing oil or gas heating system. In dual mode, it reliably provides heating and domestic hot water.

Whether you a looking for an auxiliary appliance or a complete heating system, Viessmann offers the full product range for heating with wood. Choosing a Vitoligno 100-S wood boiler as a supplementary boiler is both economical and environmentally responsible. Its other benefits include high reliability and a long service life for convenient central heating and DHW heating.

The considerably increased independence from oil and gas and the cost savings from careful energy consumption are further significant benefits. Furthermore, an investment such as modernising a heating system can also qualify for attractive subsidy programmes.

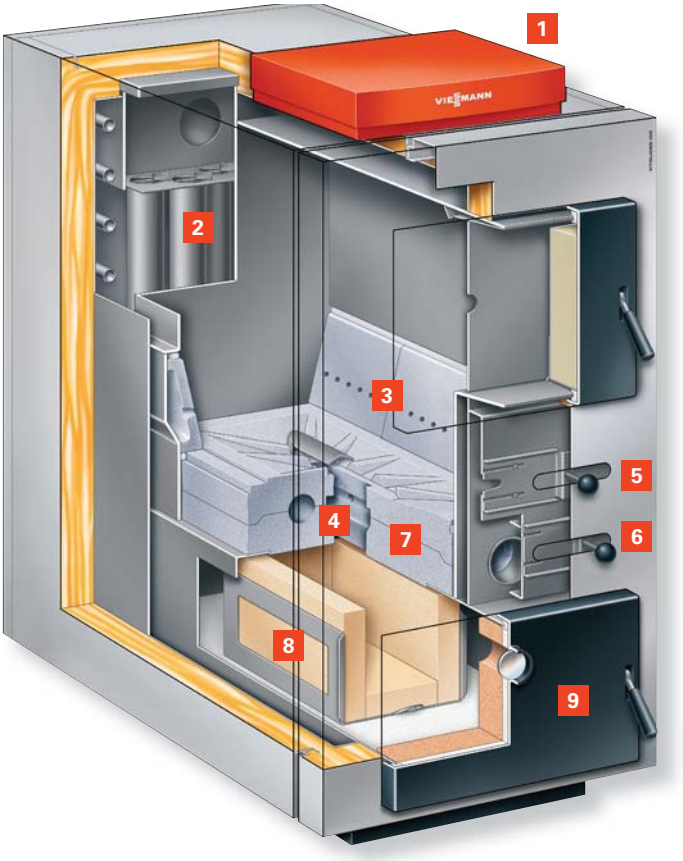
The ideal companion boiler
The Vitoligno 100-S is a very attractively priced log gasification boiler with a rated heating output of 20 kW.

This compact companion boiler is optimised for use as an extension to an existing oil or gas heating system. In dual mode, it covers the base demand for central heating and domestic hot water. The conventional boiler only starts up at extremely low temperatures, to cover any peak load demands.

With a hopper volume of 100 litres, burnout times of up to four hours are possible under full load. The Vitoligno 100-S can be charged with logs 40 to 50 cm long.

Thanks to gasification technology, the Vitoligno 100-S achieves a high combustion efficiency. The solid hopper constructed from 8 mm thick steel plates and the reliable induced draught fan ensure a long service life.

Taking advantage of public subsidies
Public subsidies can be applied for [in Germany] when a heating water buffer cylinder or a DHW cylinder is combined with a solar thermal system. More information is available from your local heating contractor or the subsidy database at www.viessmann.de.



Vitoligno 100-S

1. Vitotronic control unit
2. Tubular heat exchanger
3. Side fireclay lining with primary air outlet
4. Secondary air outlet in the combustion chamber
5. Primary air slide valve
6. Secondary air slide valve
7. Combustion chamber made from silicon carbide
8. Fireclay burnout channel
9. Cleaning aperture for ash removal

The Vitoligno 100-S log gasification boiler can be easily charged from the front thanks to its large charge door.

Take advantage of these benefits

- Log gasification boiler with a rated heating output of 20 kW
- Efficiency: up to 80.1 %
- Large hopper for logs up to 50 cm long
- Easy to operate thanks to manually adjustable primary and secondary air slide valves
- Robust silicon carbide gasification nozzle
- Fireclay burnout channel (reversal of the hot gases towards the heat exchanger)
- Vertical tubular heat exchanger
- High quality induced draught fan
- Easy hydraulic connection thanks to large boiler water content
- Electronic control unit Vitotronic 100 (type FC1) with display of operating conditions

For specification, see page 28

Vitoligno 250-S
40 to 170 kW

reddot design award

The Vitotrol 350 remote control unit with touchscreen won the prestigious red dot design award from the Design Zentrum Nordrhein-Westfalen in 2014.

The Vitoligno 250-S was developed specifically for the combustion of logs and represents the very latest in combustion technology.

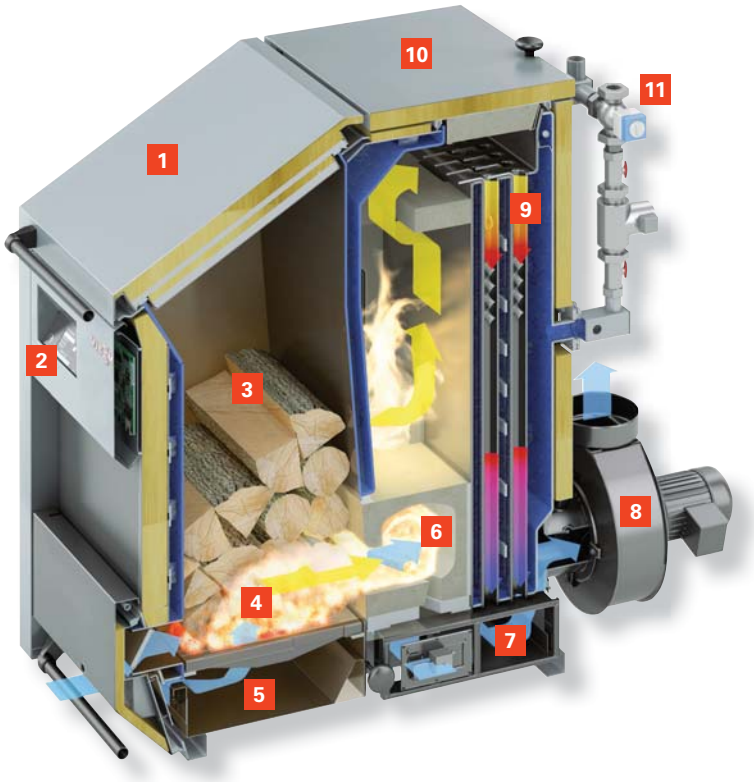
Integral heat management
The Vitoligno 250-S was developed specifically for the combustion of logs and represents state of the art combustion technology. The Vitoligno 250-S log boiler has already stood the test in thousands of applications. Charging from the top means easy handling, control via the Lambda probe guarantees low emissions and the integral heat management system ensures maximum convenience.

Clean and efficient combustion
The microprocessor controller records all data relevant for operation and regulates heat distribution. As a result, the boiler system is continuously monitored in all operating phases, from heat-up and operation under load, right through to burnout, and is held within its optimum operating range by motorised air dampers. This guarantees clean and efficient combustion.

Applications
Extension kits (accessories) can be used to incorporate heat consumers or DHW cylinders into the control system. The Vitoligno 250-S is suitable for use in detached houses, apartment buildings, agricultural applications or commercial operations.

Large hopper
Thanks to its large charging chute, the Vitoligno 250-S offers great convenience during heating, whether with logs, wood briquettes or wood remnants, either in pieces or loose. Log boilers with a rated heating output range of 40 to 75 kW can be charged with logs of 50 cm in length. In the 85 to 170 kW range the hopper width increases to 1080 mm, allowing convenient charging even with logs of 1 m in length.

With oil burner connection
The Vitoligno 250-S is approved for operation with an oil burner and the necessary connections are available. Adding an oil burner may, for example, help to bridge holiday times when manual charging with logs is not feasible.



Vitoligno 250-S

1. Easily accessible hopper door for charging the log boiler from the top
2. Weather-compensated control
3. Hopper tapering downwards for reliable fuel recharging
4. Degassing zones with cast stainless steel grate and fireclay bed
5. Large, easily accessible ash pan for the grate ash
6. Combustion chamber made from high temperature-resistant refractory concrete
7. Ash box below the heat exchanger
8. Flue gas fan with Lambda probe and flue gas temperature sensor
9. Vertical tubular heat exchanger
10. Top cleaning cover
11. Return temperature raising facility included in the standard delivery (boiler assembly) with boiler circuit pump, boiler control valve, flow and return sensor

Vitoligno 250-S
Log boiler for 50 cm logs, 40 to 75 kW

Remote control with touchscreen
With the Vitotrol 350 touchscreen, the wood gasification boiler can also be controlled from the living space. With the 5" display in 16:9 format, operation could hardly be easier. The Vitotrol 350 wall mounted device enables remote control of the boiler with all the necessary adjustment, displaying all relevant information about the boiler and the heating water buffer cylinder.

The Vitotrol 350 is more than just a remote control unit, it can also expand the system to include up to 20 additional control extensions (heating circuit, DHW heating) in a single device.

Take advantage of these benefits

- Log boiler from 40 to 170 kW for logs 50 cm and 1 m in length, with high operating convenience thanks to charging from the top
- For the following fuels: logs, wood briquettes and residual wood as shavings or in pieces
- Large hopper capacity (185 to 500 litres)
- Efficiency up to 92 %
- Control with Lambda probe ensures very low emissions
- Fully wired
- Constantly regulating air dampers with heat-up and burnout optimisation
- Accurate temperature stratification inside the heating water buffer cylinder by means of a buffer cylinder control valve – no possible disturbance of the buffer stratification through the return
- A controlled return temperature raising facility is fully fitted
- Robust, resilient display integrated into the boiler
- Straightforward user prompts with context-sensitive help function
- Integral buffer charging management
- Not sensitive to foreign bodies (nails, screws, etc.)
- Vitotrol 350 remote control (option)

For specification, see page 29

Vitoligno 250-F
35 to 100 kW

Vitoligno 250-F for fuel flexibility

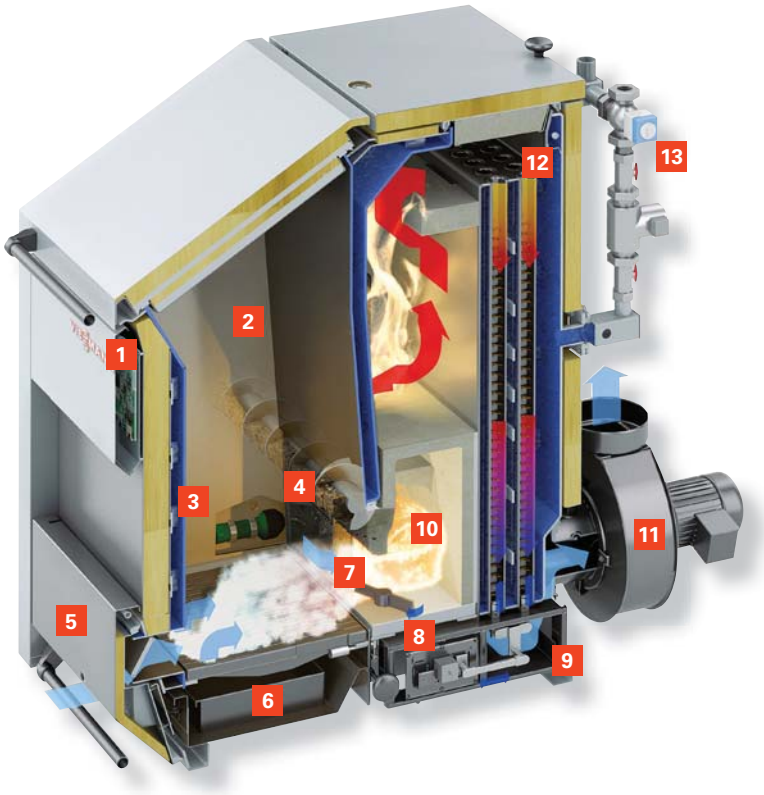
The Vitoligno 250-F is suitable for manual charging with logs, wood briquettes, wood remnants with shavings and wood remnant pieces, as well as for automatic charging with wood pellets and woodchips.

The Vitoligno 250-F can convert many forms of wood fuel into heating energy. If the wood boiler is equipped with automatic charging, the fuel is automatically ignited by an ignition fan. Combined with a DHW cylinder, this permits perfect low-load control (DHW mode in summer).

Self-cleaning heat exchanger surfaces
The vertical heat exchanger surfaces are permanently cleaned by motorised coil springs. The drive mechanism is situated low down in the protected, cool gas flow. The springs can be removed easily for annual cleaning by the heating contractor/chimney sweep.

The high efficiency of the Vitoligno 250-F results from the long burnout path, optimum heat transfer, self-cleaning boiler passes and the utilisation of residual heat in the ash. In standard mode, the ash is automatically removed from the main combustion chamber into the front combustion chamber, where it remains until it has ceased to glow.

Large hopper
The large hopper above the combustion chamber allows for convenient operation with logs. A simple push of a button is enough to change over to log combustion (patented air damper function).



Vitoligno 250-F

1. Weather-compensated control
2. Front combustion chamber charged from the top
3. Automatic ignition fan
4. Feed screw conveyor and degassing grate with primary air
5. Combustion chamber door with primary air damper
6. Large ash chamber with utilisation of residual heat
7. Combustion chamber made from heat-resistant refractory concrete
8. Automatic ash removal from the combustion chamber
9. Drive for automatic ash removal and cleaning
10. Secondary combustion chamber (secondary air via combustion chamber door)
11. Variable speed flue gas fan with Lambda probe and temperature sensor
12. Tubular heat exchanger with automatic cleaning
13. Return temperature raising facility included in the standard delivery (boiler assembly) with boiler circuit pump, boiler control valve, flow and return sensors

Vitoligno 250-F with automatic charging system

Take advantage of these benefits

- Wood boiler for manual and automatic charging
- Highly convenient operation – charging with logs from the top
- Automatic charging with wood pellets or woodchips
- Boiler efficiency: up to 92 %
- Control with Lambda probe ensures very low emissions
- Fully wired
- Accurate temperature stratification inside the heating water buffer cylinder by means of a buffer cylinder control valve – no possible disturbance of the buffer stratification through the return (option)
- A controlled return temperature raising facility is fully fitted
- Re-use of residual heat, with 8 % higher efficiency
- Automatic ignition via hot air fan
- Automatic heat exchanger cleaning
- Automatic ash removal into a 20 litre ash box (option)
- Vitotrol 350 remote control (option)

For specification, see page 29

Vitoligno 300-C

Rated heating output	kW	2.4 – 8	2.4 – 12
Dimensions (overall)			
Length	mm	770	770
Width	mm	850	850
Height	mm	1250	1250
Weight	kg	310	310
Flue outlet ø	mm	100	100

Vitoligno 300-P

Rated heating output	kW	4 – 12	6 – 18	8 – 24	11 – 32	13 – 40	16 – 48
Dimensions (pellet boiler)							
Length	mm	1065	1065	1065	1170	1170	1170
Width	mm	680	680	680	780	780	780
Height	mm	1485	1485	1485	1710	1710	1710
Weight (pellet boiler)	kg	355	355	355	527	527	527
Flue outlet ø	mm	130	130	130	150	150	150

Vitoligno 300-H

Rated heating output	kW	15 – 50	18 – 60
Dimensions			
Length (depth with feed screw conveyor)	mm	2100	2100
Width (boiler)	mm	1200	1200
Height	mm	1700	1700
Weight	kg	890	890
Flue outlet	ø mm	150	150

Vitoligno 300-H

Rated heating output	kW	24 – 80	30 – 99	30 – 101
Dimensions				
Length (depth)	mm	1721	1721	1721
Width (boiler)	mm	865	865	865
Width (with feed screw conveyor)	mm	1765	1765	1765
Width (with pellet hopper)	mm	1926	1926	1926
Height	mm	1856	1856	1856
Height of pellet hopper	mm	2070	2070	2070
Weight	kg	1200	1200	1200
Flue outlet	ø mm	200	200	200

Vitoligno 200-S

Rated heating output	kW	20	30	40	50
Dimensions (overall)					
Length	mm	1165	1165	1165	1165
Width	mm	714	714	714	714
Height	mm	1587	1587	1797	1797
Weight	kg	770	770	865	865
Flue outlet ø	mm	150	150	150	150
Fuel hopper capacity	litres	169	169	211	211

Vitoligno 100-S

Rated heating output	kW	20
Dimensions		
Length	mm	1277
Width	mm	618
Height	mm	1220
Weight	kg	466
Flue outlet ø	mm	150
Fuel hopper capacity	litres	100

Vitoligno 250-S

For 50 cm logs

Type		35	45	55	65
Rated heating output	kW	40	50	60	75
Hopper					
Width	mm	550	550	550	550
Capacity	litres	185	185	255	255
Dimensions					
Length	mm	958	958	1163	1163
Width	mm	795	795	795	795
Height	mm	1433	1433	1490	1490
Weight	kg	750	760	920	935
Flue outlet ø	mm	200	200	200	200

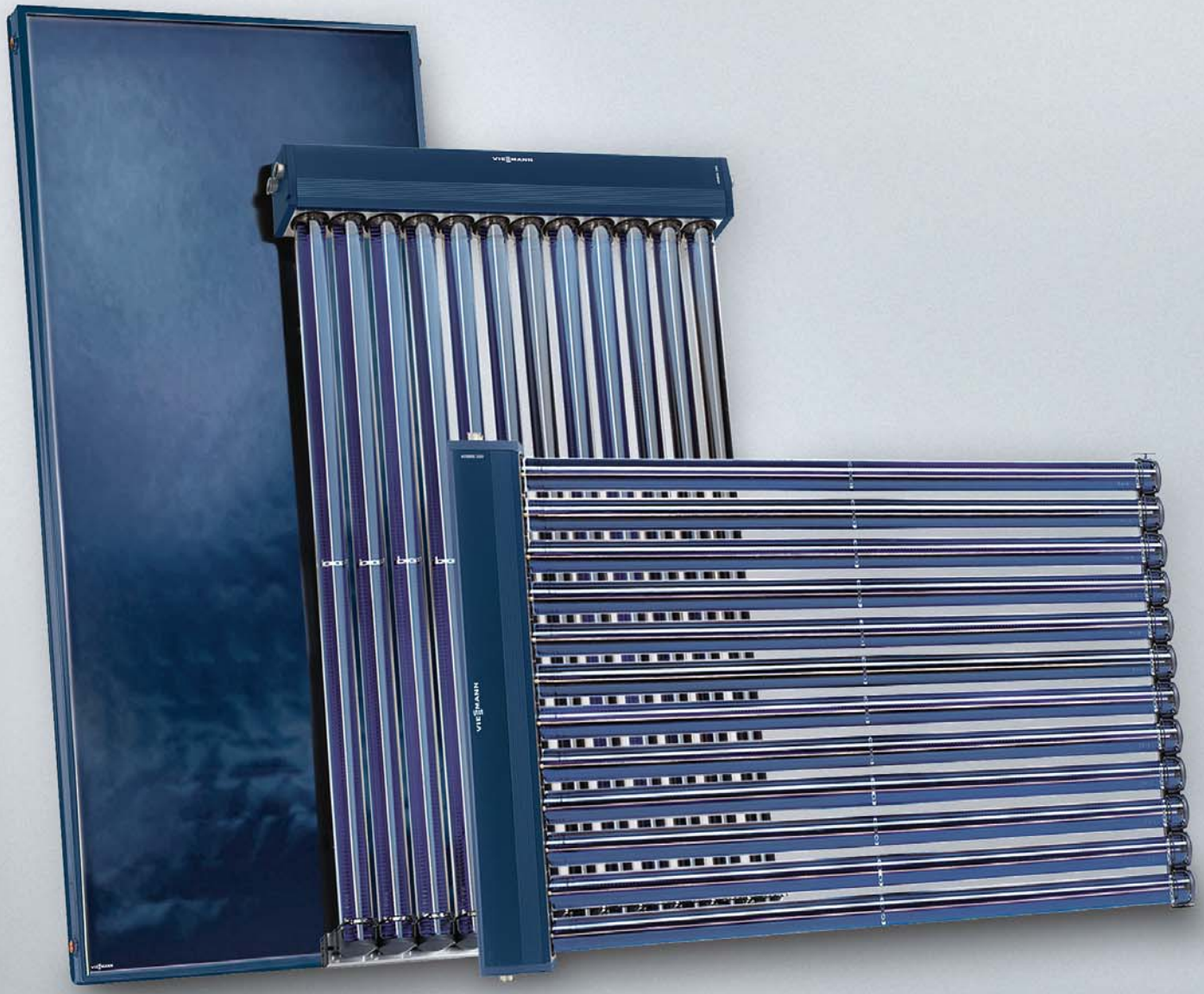
Vitoligno 250-S

For 1 m logs

Type		61	81	101	151
Rated heating output	kW	85	100	120	170
Hopper					
Width	mm	1080	1080	1080	1080
Capacity	litres	375	375	500	500
Dimensions					
Length	mm	1018	1018	1353	1353
Width	mm	1324	1324	1324	1324
Height	mm	1433	1433	1490	1490
Weight	kg	1300	1320	1680	1720
Flue outlet ø	mm	200	200	250	250

Vitoligno 250-F

Type		45	65	85
Rated heating output				
Operation with logs	kW	49	75	100
Rated heating output				
Operation with woodchips	kW	35	52	70
Hopper				
Width	mm	550	550	550
Capacity	litres	185	255	255
Dimensions				
Length	mm	958	1163	1313
Width	mm	795	795	795
Height	mm	1430	1490	1490
Weight	kg	760	935	1065
Flue outlet ø	mm	200	200	200



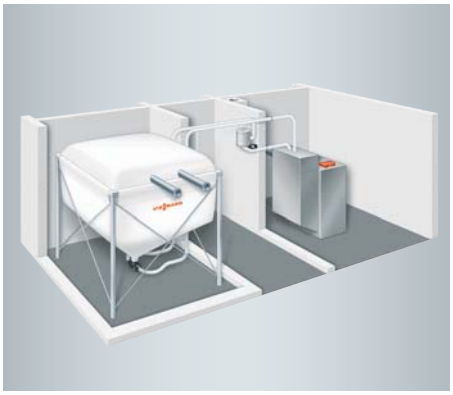
A perfect match – system technology

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

We provide far more than just individual heating equipment components of high quality and reliability. The same high standards apply equally to Viessmann system technology, where all components fit together perfectly.

Viessmann system technology incorporates everything which constitutes a reliable heating system that is economical to run: powerful Vitocell DHW cylinders for high DHW convenience, as well as high quality solar thermal systems for cost-effective DHW heating and central heating backup.

Naturally this also includes the complete range of accessories for pellet storage with discharge systems for every application area.



System components
Accessories for operating wood heating systems

Page 32

Solar thermal and photovoltaic
Free solar energy – discover more about our solar technology for DHW heating, central heating backup and power generation.

Page 38

DHW cylinders and heating water buffer cylinders
DHW convenience for every demand – with the Vitocell range of cylinders from Viessmann, you have an enormous choice and maximum scope when designing your heating system.

Page 40

Pellet silo

Integrated pellet systems

Pellet storage with discharge systems for every application

Pellet box measuring
1230 x 600 x 770 mm
(length x width x height)

For lasting and reliable operation, the pellet boiler, discharge system and pellet store must form an integrated unit.

Pellets can be supplied by means of tankers and blown into the pellet storage room.

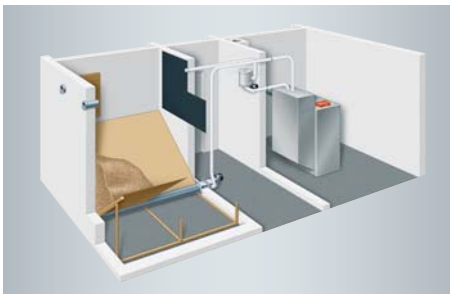
A hose length of 30 metres should not be exceeded when filling the storage room.
If longer hose lengths are to be expected, please consult with your pellet supplier to find out more about their technical options.

The access route must be suitable for tankers. Generally a road width of at least three metres and an overhead clearance of at least four metres is required.

If possible, the storage room should adjoin an outside wall. There should be a 230 volt power supply for the pellet supplier's vacuum fan and an electrical isolator for the pellet boiler.

Pellet box – the small pellet storage solution of choice
The pellet box is useful if there is not enough space for a storage room. It provides an affordable and simple way to store pellets.

Storage and supply to the pellet boiler via a vacuum system
The vacuum system is deployed wherever the storage room does not directly adjoin the installation room of the pellet boiler. Pellets can be transported over a distance of up to 15 metres, and the flexible positioning of the vacuum system enables installation even in tight spaces. The vacuum system can also be adapted to a room discharge screw conveyor or a pellet silo.



Storage room and supply to the pellet boiler via a vacuum system

Pellet silo (fabric container) and supply to the pellet boiler via a vacuum system

Storage and supply to the pellet boiler via flexible screw conveyor
If the storage room or the pellet silo is situated immediately adjacent to the boiler room, the pellet boiler can be supplied via a flexible screw conveyor directly to the rotary lock valve. Using this system means there is no need for a pellet hopper at the boiler. The drive unit for the flexible screw conveyor is installed directly at the boiler on the rotary lock valve.

Storage room and supply to the pellet boiler via flexible screw conveyor

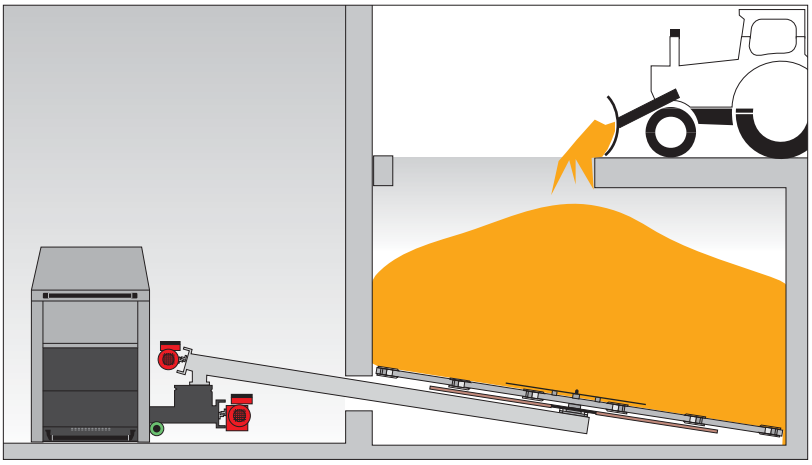
Pellet silo (fabric container) and supply to the pellet boiler via flexible screw conveyor

Pellet box for manual charging from pellet sacks
For manual charging from pellet sacks, the pellet box can be positioned right next to the Vitoligno 300-C or, if preferred, anywhere inside the room. A 260 kilogram load is sufficient for up to ten days.

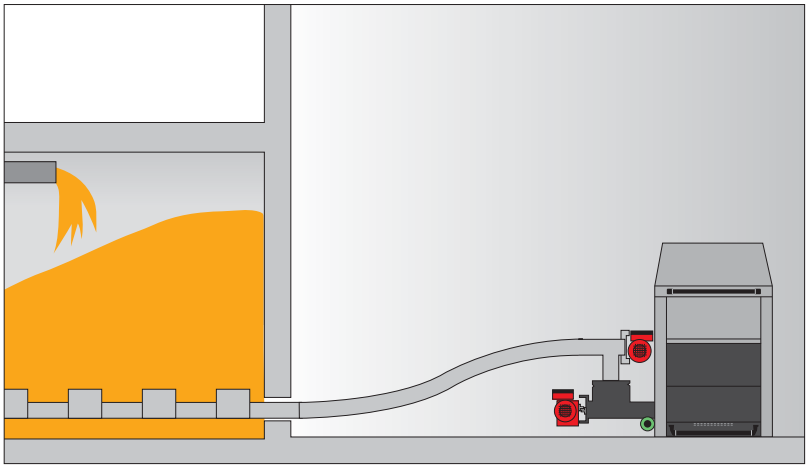
Pellet box – the flexible and compact pellet store

Storage and supply systems for Vitoligno 250-F

The adjustable supply screw conveyor is easy to install and can be sited in a wide variety of premises.



Fuel silo for woodchips with solid room discharge



Fuel silo for pellets with quiet and energy saving plastic supply screw conveyor

For woodchips
Solid room discharge
A bottom agitator with two leaf spring arms fills a screw conveyor channel let into the floor. The agitator and screw conveyor are designed for robust operation and high torque. This safeguards a trouble-free and reliable woodchip discharge, no matter in what form. The stable torque support protects the gearbox against overloads and ensures consistently smooth and quiet operation.

For wood pellets
Very quiet supply screw conveyor with low power consumption
The supply screw conveyor is made from hardened steel (chrome-nickel steel) and is characterised by its high torsional strength, resilience and very low friction losses. Outside the storage room, the feed pipe is made of polished chrome-nickel steel.

Flame-proof boiler feed with dispensing hopper
The solidly constructed feed screw conveyor made from high temperature-resistant chrome-nickel steel transports the fuel – pellets or woodchips – into the combustion chamber in accurately metered lots. Located above the screw conveyor is a dispensing hopper with light guard that determines the level of the separating fuel layer. This fuel barrier prevents an exchange of gases and consequently fuel burn-back. A second burn-back protection device takes the form of a tested shut-off gate. This spring-loaded slide valve opens during the heating phase and closes automatically afterwards or in the case of a power failure.

Control technology – heating economically by design

The integral control unit enables operation of the entire system with three heating circuits for DHW heating and central heating backup.

Integral control module
The weather-compensated control unit is a decentralised microprocessor system. It controls the boiler system by means of a PCB and programming unit (display), both of which are integrated into the boiler. A 3-sensor buffer management system forms part of the standard control unit. This can be supplemented with mixers (up to three extension kits).

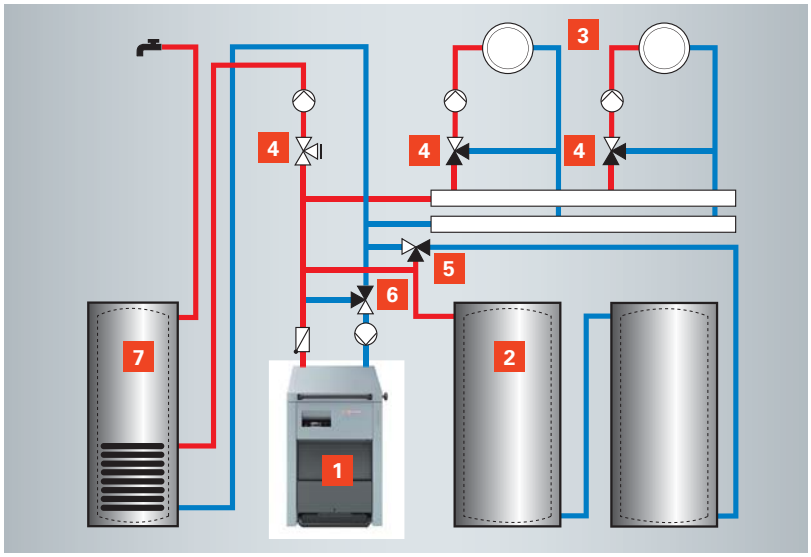
Robust, advanced display screen
The large screen with graphic capability is easy to operate and has a multiple line plain text display. The control unit enables operation of the entire system, including three heating circuits for DHW heating with DHW cylinder and heating water buffer cylinder. With eight models to choose from, we offer the right solution for every application.

Heat management (ECO function)
- During burnout, any heat not required for heating purposes is channelled into the heating water buffer cylinder with precise temperature stratification.
- After burnout, the residual heat in the boiler water is fully utilised.
- Only then is heat supplied to the heating water buffer cylinder. The proven control concept for heating comfort discharges the heating water buffer cylinder with precise temperature stratification.

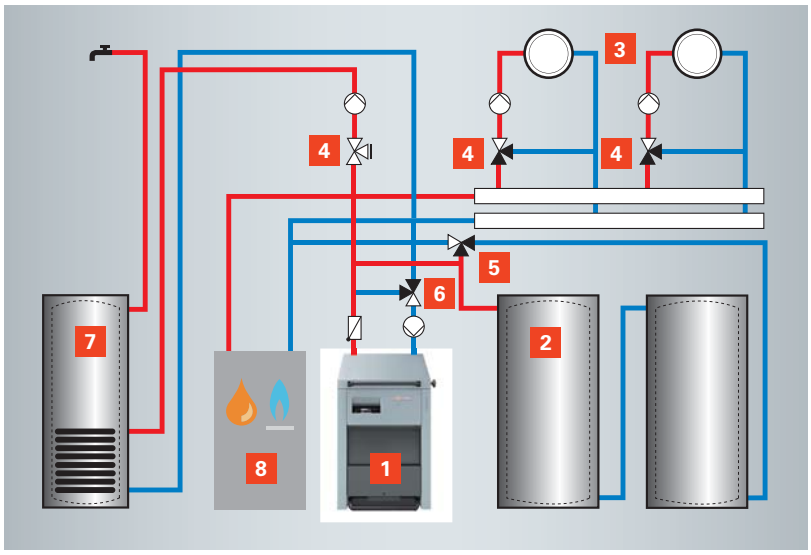
Advanced Ecotronic control unit for the Vitoligno 200-S and Vitoligno 250-S log gasification boilers

Hydraulic connection of a Vitoligno 250-S

The reliable and safe operation of a log boiler is ensured by selecting the right thermal concept.



Mono mode system for Vitoligno 250-S with one or more heating circuits with mixer, heating water buffer cylinder and DHW heating with DHW cylinder



Dual mode system for Vitoligno 250-S with oil/gas boiler, one or more heating circuits with mixer, heating water buffer cylinder and DHW heating with DHW cylinder

Heating water buffer cylinder

- Precise heat stratification is a must for optimum utilisation of the available heat.
- The control unit, with reliable buffer cylinder control valve, regulates this function perfectly.
- The utilisation of solar energy can be combined perfectly with log combustion.

1. Vitoligno 250-S log boiler (also for Vitoligno 200-S)
2. Heating water buffer cylinder
3. Heating circuit A + B
4. Extension kits
5. Buffer cylinder control valve
6. Return temperature raising facility
7. DHW cylinder
8. Additional heat generator (oil/gas boiler)

System components for Vitoligno 250-S/250-F

The complete system from a single source. All system components are perfectly coordinated with each other to form a complete heating system.

The boiler system incorporating the boiler assembly (boiler pump, boiler control valve) as well as the variable speed induced draught fan are fully wired.

Automatic ash removal (20 litre capacity)
(only on Vitoligno 250-F)
The clean combustion leaves only the minerals stored in the wood behind as ash. A grate with moving elements extracts the ash from the combustion chamber and transfers it into the ash box. As soon as it has cooled down, the ash removal screw conveyor transports the ash into a large external ash container.

Solid room discharge for woodchips
(only on Vitoligno 250-F)
With different discharge radii and screw conveyor lengths, the system can be perfectly matched to the physical site conditions.

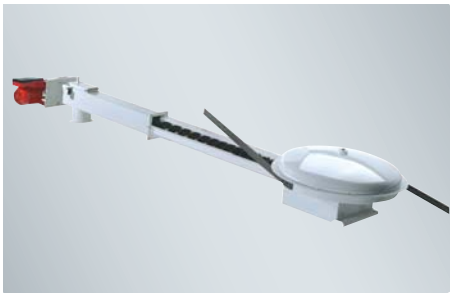
Supply screw conveyor for pellets
(only on Vitoligno 250-F)
The supply screw conveyor is an extremely adaptable, easy to install and quiet pellet charging solution with low power consumption.

Boiler feed with dispensing hopper
The boiler feed with dispensing hopper can be fitted either on the left or right side of the log boiler. This sophisticated system provides maximum fire safety.

Fully assembled heat manifold
The fully assembled heat manifold is available for installation on the boiler or as a wall mounted version.

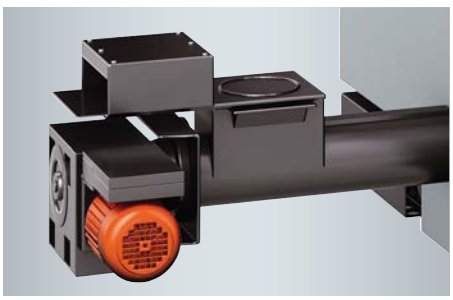
Heating water buffer cylinder and DHW cylinder
An extensive range of high quality products (integrated or supplied separately), including all accessories, is available.

Automatic ash removal (20 litre capacity)



Solid room discharge for woodchips

Supply screw conveyor for pellets



Boiler feed with dispensing hopper

Test marks
All components are thoroughly tried, tested and approved by several different bodies

TÜV-tested to EN 303-5

EMPY test report, VKF approval

VHe type-tested

Vacuum tube collectors can be installed anywhere, and also make for an attractive architectural feature in new buildings.

Solar thermal systems – free solar energy

Complement your new gas 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 that, 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 distinguishes itself through 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 with particular efficiency.

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 meets the highest standards. It is a top quality, high performance collector based on the heat pipe principle.

Generate your own power with Vitovolt
Vitovolt 200 photovoltaic modules generate electrical energy directly within the solar cell. This power is exported to the public grid via an inverter.

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.

Particular benefits of the Vitosol 300-T and Vitosol 200-T vacuum tube collectors include their superior reliability and long service life.

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

The Vitocell range from Viessmann offers the right DHW cylinder for every demand, perfectly matched to your boiler or solar thermal system.

DHW convenience for every demand

Vitocell DHW cylinders offer a convenient solution for supplying your household with hot water – the perfect addition to your new wood 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 the shower in short order.

Those who prefer a bath will also want to have enough hot water to fill the tub. After all, the DHW cylinder should also 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 the equipment level is 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.

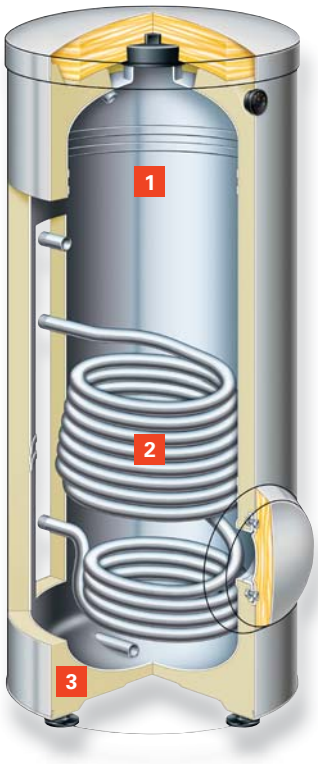
Vitocell 100 with Ceraprotect enamel coating
The Vitocell 100 with Ceraprotect enamel coating meets all requirements for convenient, economical DHW heating and is amongst the top selling enamelled DHW cylinders. The Ceraprotect enamel coating provides the DHW cylinder with secure and lasting protection 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. 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 of stainless steel, capacity: 130 to 500 litres
- Dual mode and multi mode DHW cylinders for the 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 through highly effective thermal insulation



Vitocell 300-V

1. Vitocell 300-V made from stainless steel; capacity: 130 to 500 litres
2. Internal indirect coils reaching right to the cylinder floor heat the entire water content
3. Low heat losses thanks to highly effective thermal insulation


VIESMANN
4 · 5

Accessories – everything from a single source

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

With the Vitoset 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 of the parts are made available quickly and directly to your Viessmann heating contractor and are of the highest quality.

Common to all components in the extensive range of Viessmann accessories is the use of high grade, tested materials and perfect workmanship – this ensures that you are provided with a truly safe and reliable solution.

Vitoset – 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 Vitoset.

Product range

Fuel storage
- Pellet silos

Heat generation
- Expansion vessels for sealed unvented heating systems
- Shut-off valves, safety valves, air 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
- Fresh water 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 cylinders
- 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, ultra-low temperature radiators and bathroom radiators
- Radiator accessories
- Underfloor heating systems

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

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

The Vitoset range provides the products you need to operate your heating system in complete safety, all from a single source.

Every Vitoset product meets the high quality standards 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. Our radiators are easy to clean, making them attractive for allergy sufferers. 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.

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

Some service examples

- Free, no-obligation and individual advice, even on site
- Clear calculation of heating cost savings after the modernisation of 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.

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.

Creditplus BANK
CRÉDIT AGRICOLE GROUP

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

Viessmann offers detailed online information about products, subsidy opportunities and services.

Always there for you

As a globally active family business, Viessmann is involved in constant dialogue with its trade partners and system users.

Viessmann trade partners are local, professional and committed contacts who are always pleased to offer the necessary support for all questions relating to heating systems and modernisation. In personal consultations, the best solutions for an efficient heating system are sought from the Viessmann comprehensive range.

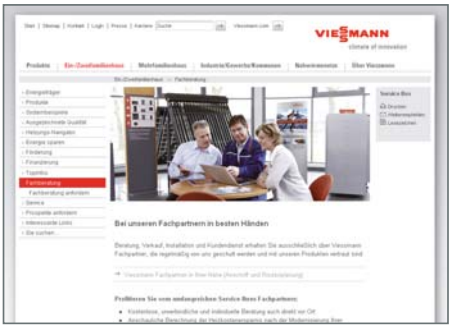
Viessmann online
You can find a great deal of further information on Viessmann products and services at www.viessmann.com.

www.viessmann.de

Quick help via the internet
For the latest information on Viessmann products and on the subject of heating in general, visit www.viessmann.com. There, you can find comprehensive information round the clock on all Viessmann heating systems and their output levels, a technical glossary and much more.

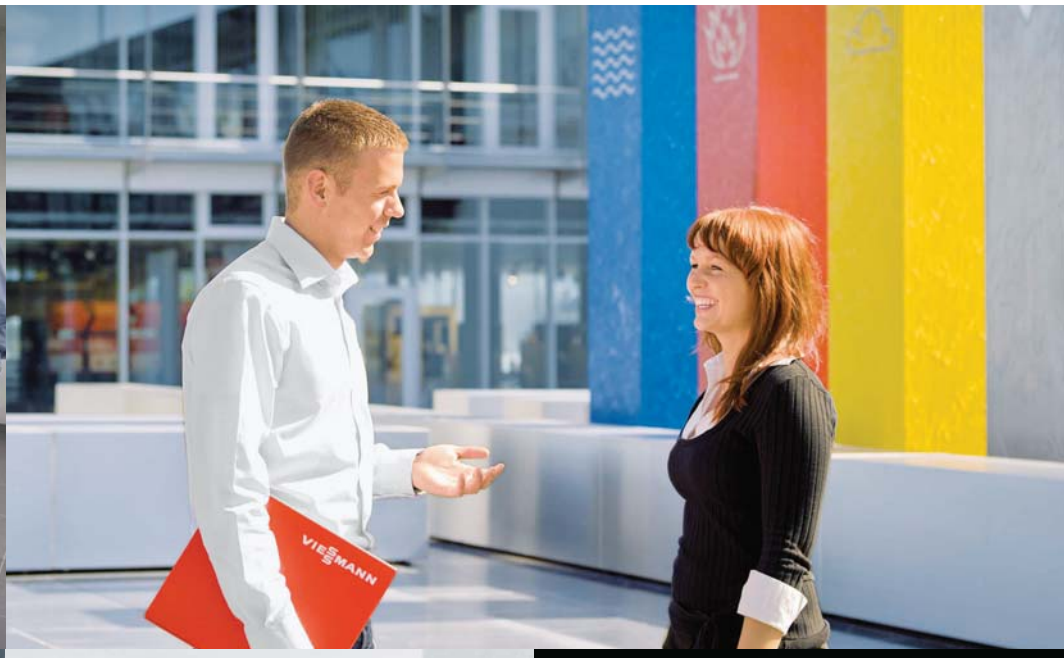
Subsidy programmes
You will also find the latest information on subsidies [Germany] for environmentally responsible heating systems from Viessmann at www.viessmann.de.

Of course, individual and competent advice can also be obtained from all Viessmann sales offices or directly from your heating contractor.



Competent local contact
It is extremely easy to find local Viessmann trade partners using the quick search function at www.viessmann.de.

Simply click on "Partner vor Ort" to show contractors in your area.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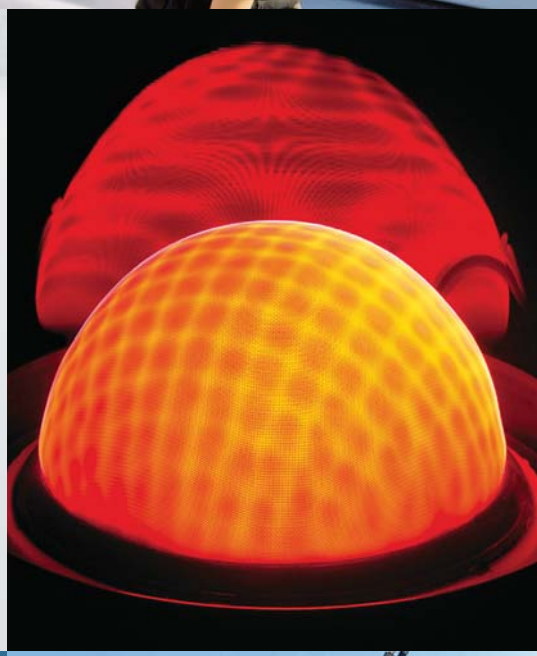


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Viessmann – climate of innovation

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 to harmonise ecology, economy 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 11,400 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
- CO_2 emissions reduced by 80 percent

The long-term goal is for the company to sustainably meet all of its own heating energy requirements.

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

Energy Efficiency Award 2010

Viessmann Group

Company details
- Established in: 1917
- Employees: 11,400
- Group turnover: 2.1 billion euros
- Export share: 55 percent
- 27 production companies in 11 countries
- 74 countries with sales companies and representation
- 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 units
- Heat pumps
- Wood combustion technology
- Biogas production plants
- Biogas upgrading plants
- Solar thermal systems
- Photovoltaics
- Accessories
- Refrigeration technology

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climate of innovation

Viessmann Werke GmbH & Co. KG
Viessmannstrasse 1
35107 Allendorf (Eder)
Telephone +49 6452 70-0
Fax +49 6452 70-2780
www.viessmann.com

Your trade partner:

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