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Viessmann gas condensing systems

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Heating with gas: efficient, comfortable, smart

Viessmann is presenting products for efficient, convenient heating with gas at ISH 2015:

- Condensing boilers in the Vitodens 300 range with the new Vitotronic 200 control unit, color touch display, energy cockpit and integrated LAN interface for convenient operation and extensive control over energy consumption, also remotely at any time.
- The gas adsorption heating unit Vitosorp 200-F, which is up to 25 percent more economical than condensing technology thanks to the additional use of ambient heat using an adsorption process. Vitosorp 200-F is now available in another power rating of 15 kW for modernization projects. In addition to geothermal energy, it can also use a solar thermal system as a heat source.

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Vitodens 300-W, 333-F and 343-F: wall-mounted and compact units with color touch display, energy cockpit and Internet interface

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Heat intelligently and produce hot water – Owners of gas condensing boilers in the Vitodens 300 series will have their heating system under control at all times with the new, user-friendly color touch display. This control is ensured by features such as the histogram showing energy consumption rates. The LAN serial interface provides communication with the heating system from a smartphone or tablet PC at any time.

Highly efficient heat generation with gas

The gas condensing boilers in the Vitodens 300 series include the wall-mounted unit Vitodens 300-W with outputs up to 35 kW and the compact Vitodens 333-F (up to 26 kW) with an integrated stainless steel primary cylinder for greater DHW convenience. The compact unit Vitodens 343-F (up to 19 kW) features a solar primary cylinder and all components required to connect to solar collectors installed ready for use.

The modulation range is particularly wide at 1:10, so the output can be precisely adjusted to the building's current heating load. This ensures that a high standard utilization rate of 98 % (H_s) is achieved. Lambda Pro Control combustion control guarantees that high efficiency is maintained if there is a change in gas quality. It measures combustion quality on a continuous basis and automatically compensates for any variations by adjusting the gas/air mix. All Vitodens gas condensing boilers are equipped with this innovative technology and thus meet the requirements of a gas market with increasingly changing gas qualities. Moreover, the

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self-calibrating combustion control also extends the interval between chimney sweep inspections from two to three years.

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Energy cockpit for smart energy management

The new, large touch display reproduces all key information in text format or graphs while color pictograms make it simple to navigate. In addition to an appealing design and optimum user convenience, the new display acts as an energy cockpit to provide extensive control over gas consumption for heating and DHW generation. Solar yields are also logged and displayed if a solar thermal or photovoltaic system is connected. The color histograms display all data as daily, weekly, monthly, or yearly values as required. The energy cockpit thus provides owners with an overview of their energy consumption. They can then change their heating habits to save energy if required.

Easy connection to the Internet

The integrated LAN interface can provide a direct connection to a DSL router with no additional components required to do so. This enables owners to operate heat generators and up to three heating circuits conveniently using the Vitotrol app and a smartphone from any place at any time. This includes specifying target values and heating programs and retrieving all key system information. It is also just as easy to have the units monitored and maintained remotely by a trade professional. The encrypted data transfer during this process ensures optimum security.

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Smart home system for greater convenience

The additional smart home system Vitocomfort 200 can also integrate the whole building into the energy management system. This smart heating system ensures greater savings on energy consumption as wireless sensors detect open windows and doors, for example, and the heating is automatically turned down. The

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Smart Energy function provides a clear overview of power consumption in all connected units. If a photovoltaic system is installed, Vitocomfort 200 ensures maximum self-generated electricity usage by automatically starting the washing machine at times when there is a spike in solar power supply, for example.

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Easy commissioning with electronic installation wizards

Heat generators in the Vitodens 300 series are the only gas condensing boilers on the market to offer an installation wizard for start-up procedures as standard. Sensor and connected module detection helps to produce the system layout in graphic format on the display. Trade professionals can then use the layout to configure the individual heating circuit components, DHW generation, and solar heating components directly in plain text without needing to enter the coding level. This makes commissioning easy and error-free and time is also saved.

Automatic flow balancing with Vitoflow

The gas condensing boilers are designed to provide automatic flow balancing with Vitoflow, for example. Viessmann thus enables trade professionals to carry out flow balancing for the whole heating system in an automated system in a very short period of time, meaning balancing is completed easily and reliably. The TÜV-certified (German technical supervisory association) process does not require data such as piping lengths and diameters, details that are often not known and difficult to find out when modernizing systems. The only other items required are a standard laptop with Vitosoft 300 software and a service set with radio-controlled servomotors, which are mounted on the radiators during the balancing process.

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Automatic residual flow level control for the heating circuit pump

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The heating circuit pump integrated into units can directly and exactly adjust its speed to the heat demand in buildings using the automatic residual flow level control. There is no need for additional pressure sensors to do so. When thermostatic valves are closed, the flow rate is reduced in the heating circuit. The flow rate sensor in the units then immediately sends a signal to reduce the pump speed. This decreases power consumption in the pump and eliminates flow noise in the heating circuit.

The combination between MatriX burners and stainless steel radial heat exchangers ensures maximum efficiency in all units.

Viessmann gives a guarantee of ten years for the heat exchanger against leaks due to corrosion (www.viessmann.de/garantie).

Advantages for market partners

- Fast, easy commissioning thanks to installation wizard with preset system layouts
- Simple unit configuration in plain text with graphics using start-up assistant
- Extended diagnosis based on display of relevant operating data and system statuses
- Suitable for all gas types; no need to replace panel if gas type is changed
- Compact units: rapid, easy installation thanks to prefitting of all necessary components
- Time-tested Vitodens accessories range can be used

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Advantages for owners

- Attractive design and optimum user convenience thanks to color touch display with information in plain text and graphics

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- Energy cockpit providing visual display of energy consumption and solar yields
- Easy connection to Internet thanks to integrated LAN interface and operation with Vitotrol Plus app
- Energy saved and flow noise prevented by residual flow level control
- Chimney sweep inspection interval extended from 2 to 3 years thanks to Lambda Pro Control
- Optimum drinking water convenience and permanent scrupulous hygiene standards thanks to integrated stainless steel tank in compact units

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Technical specifications

- Output:
 - 1.9 to 35 kW (Vitodens 300-W)
 - 1.9 to 26 kW (Vitodens 333-F)
 - 1.9 to 19 kW (Vitodens 343-F)
- Modulation range 1: 10
- Standard utilization rate 98 % (H_s)
- Capacity
 - Vitodens 333-F: 100 l
 - Vitodens 343-F: 220 l

Availability

The wall-mounted gas condensing boiler Vitodens 300-W and the compact units Vitodens 333-F and Vitodens 343-F with a new color touch display, integrated LAN interface, and start-up assistant are available for delivery from April 2015.

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Vitosorp 200-F: gas adsorption heating unit with new output level

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Vitosorp 200-F has been the most efficient, gas-fired heat generation technology on the market for single-family homes since April 2014. Savings of 25 percent are possible in comparison to non-condensing gas units. Awarded the *Design Plus powered by ISH* label, the unit is now also supplied in an additional output capacity size of 15 kW. A solar thermal system can also be used as a heat source in addition to geothermal energy.

The gas adsorption heating unit is designed to meet the heat demand in single-family homes. Using environmental energy ensures that this unit already complies with the stricter requirements for new builds in the German Energy Saving Ordinance (EnEV) 2016. Vitosorp 200-F with an output of 15 kW is also an efficient solution for modernization since flow temperatures up to 75° C are possible with recommended temperatures less than 55° C.

Adsorption heat pump module provides most annual heat output

Vitosorp 200-F combines time-tested gas condensing technology and innovative zeolite heat pump technology in a single compact unit. The adsorption heat pump module covers the heat baseload up to 4.8 kW and also produces the greater part of annual heat outputs. As it is run on natural or liquid gas, power consumption is exceptionally low.

Zeolite and water are used in hermetically sealed refrigerant cycles in the heat pump module. Neither substance is consumed; the cyclical adsorption process can be repeated almost

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indefinitely. Zeolite absorbs steam produced by heat from the earth or a solar thermal system, thus ensuring high working temperatures for heating and DHW generation. The bound water vapor is subsequently driven out again by the gas condensing boiler. The heat released during subsequent condensation of steam is also channeled into the heating system.

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The heat exchanger in Vitosorp 200-F is coated with zeolite. This provides direct contact and a maximum transmission surface between the zeolite and the heat exchanger. Heat is transmitted to the heating water very effectively, so that a very high overall efficiency of over 125 % can be achieved.

Time-tested gas condensing technology for peak loads

The integrated condensing module covers peaks in demand on particularly cold days. It also provides convenient DHW generation. The time-tested combination between MatriX burners and a stainless steel radial heat exchanger ensures that gas is efficiently transformed into heat. Viessmann provides a 10-year warranty against leaks due to corrosion for stainless steel radial heat exchangers (www.viessmann.de/garantie).

Lambda Pro Control combustion control guarantees that high efficiency is also maintained when the gas quality fluctuates. There is also no need to modify to the gas installation when the gas type is changed over from LL gas to natural gas, as is scheduled to happen in some regions of Germany in the future. Lambda Pro Control automatically adjusts the heat generator to the new conditions.

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Flexible use of inexpensive heat sources

The gas adsorption heating unit design now allows either geothermal energy or solar heat to be used as a source. Any

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existing solar collectors can also be connected via a Vitocell 140-E heating water buffer cylinder for modernization projects, for example. A geothermal probe is also an inexpensive solution as the drill hole only needs to be about 50 meters deep.

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Optimum user convenience with smartphone and new smart home system

The Vitotronic control unit provides easy, intuitive operation with its large, lit screen featuring text display and a clearly defined menu. The ambient heat used can be displayed on the screen. If required, the unit can be controlled remotely with the wireless remote control Vitotrol 300 RF or using the Vitotrol app and a smartphone or tablet PC.

Entire buildings can be networked using the optional smart home system Vitocomfort 200, including the monitoring of windows and doors and activation of lighting and roller shutters.

Attractive subsidy program

Subsidies from the German Federal Office of Economics and Export Control (BAFA) are making it attractive for homeowners to invest in Vitosorp 200-F. If geothermal energy is used as a heat source, homeowners receive a subsidy of up to 3,400 euros. The subsidy can be up to 4,400 euros when the unit is combined with a solar thermal system.

Easy fitting and brief start-up procedure

Thanks to dimensions compatible with standard kitchen grids and virtually noise-free operation, the unit can easily be set up inside homes. It is just as simple to install as a compact gas condensing boiler with solar thermal system. The start-up assistant integrated into the control unit helps with all key unit settings. The assistant launches automatically when the system is switched on for the first

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time and performs all the procedures required for initial start-up of its own accord. It also requests setting parameters such as the required language, time, date, and the desired maximum heat output. If required, Vitoflow can also be used to carry out hydraulic balancing in an automated process. All that is needed is a laptop with the Vitosoft 300 software and a service set with radio-controlled servomotors. This means that the whole heating system can be quickly optimized with no specialist knowledge required.

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Advantages for market partners

- Flexible installation and usage
- Can be used with solar heat or geothermal energy
- Installation and maintenance as for gas condensing boilers
- Simple hydraulic connection
- Easy to transport thanks to two separate modules
- Quickly ready for operation with no errors thanks to start-up assistant
- Automatic flow balancing with no special expertise required thanks to Vitoflow
- Instantly ready for operation since start-up is also possible without boreholes or solar collectors
- Maintenance-free heat pump module
- Accessories and exhaust systems as for Vitodens gas condensing boilers
-

Advantages for owners

- Up to 25 % less energy consumption
- Low-noise and reliable in operation, similar to gas condensing boilers
- Greater DHW convenience thanks to DHW booster (11 kW)
- Environmentally friendly work media (zeolite and water)

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- Easy-to-operate Vitotronic control with environmental energy yield display, remote-controlled with app
- Ambient heat easily exploited; photovoltaic system of 7 m² or larger can be used
- Eligible for grant under market incentive programs (MAP)
- Low maintenance costs as with Vitodens condensing boilers

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Technical specifications

- Output:
 - 1.8 to 11 kW
 - 1.8 to 15 kW
- Annual efficiency at 35/28° C as per VDI4650-2:
 - Geothermal energy (11 kW): 119 % (H_s)
 - Solar heating (15 kW): 134 % (H_s)
- Maximum flow temperature 75° C (recommended < 55° C)

Availability

The Vitosorp 200-F gas adsorption heating unit with a rated heat output of 11 kW is on sale now. The model with a rated heat output of 15 kW is available from April 2015.

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Comprehensive range of products for all fuel sources

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Gas condensing systems are a key segment within Viessmann's comprehensive range of products. The range offers customized solutions with efficient systems and outputs between 1.0 and 120,000 kW for all application areas and fuel types. These include wall-mounted condensing boilers between 1.9 and 150 kW, floor-standing condensing boilers between 1.0 and 6,000 kW, and combined heating and power (CHP) plants between 0.75 and 530 kW_{el} and between 1.0 and 660 kW_{th}. Also part of this impressive portfolio are systems for renewables including solar thermal systems with flat-plate and vacuum tube collectors for DHW generation, auxiliary heating, and process heat generation, biomass boilers from 2.4 kW to 50,000 kW for wood logs, chips, and pellets, heat pumps from 1.7 to 2,000 kW for use with geothermal heat, groundwater or ambient air, and photovoltaic systems.

Viessmann also supplies everything from a single source for local heating networks and bioenergy villages – from initial feasibility studies and detail engineering through to the delivery of all necessary components, such as biogas systems, heat generators, CHP modules, geothermal piping and residential transfer stations, and construction and commissioning.

The Viessmann Group meets all needs in the cooling technology sector with a comprehensive product range of temperature-controlled rooms, high-performance cold rooms and refrigeration units, and refrigeration solutions for the food retail industry plus related services and accessories.

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Comprehensive services portfolio

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Furthermore, Viessmann supports their market partners with a comprehensive services portfolio. This includes a flexible logistics concept, a customer-oriented service concept from its Technical Service Department, the needs-based Viessmann Academy training program, campaign-related promotional material, the online portal, and guaranteed sales thanks to brand presence at winter sports events.

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Image 1: The wall-mounted gas condensing boiler Vitodens 300-W and the compact units Vitodens 333-F and Vitodens 343-F are now equipped with a new color touch display.

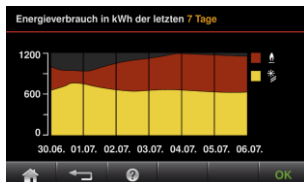


Image 2: Serving as an energy cockpit, the new color touch display in Vitodens units in the 300 series provides comprehensive information on gas consumption and solar heat yield.

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Image 3: The Vitosorp 200-F gas adsorption heating unit is now available in an additional output capacity size of 15 kW; solar heating can now also be used to heat living spaces.

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