Hoval

Hoval UltraGas®

The gas condensing boiler for high demands.

Durable | Versatile | Safe



Hoval | Responsibility for energy and environment

Hoval UltraGas®

Floor-mounted gas condensing boiler.

Natural gas has an excellent environmental footprint compared to other fossil fuels, especially if it is combined with state-of-the-art gas condensing technology. As long as the boiler is connected to the network, gas will always be available – at any time and with zero fuss.
In future, blending hydrogen (H2) and biomethane in natural gas quality into the existing gas network will further improve the environmental balance sheet.

Added value for you:

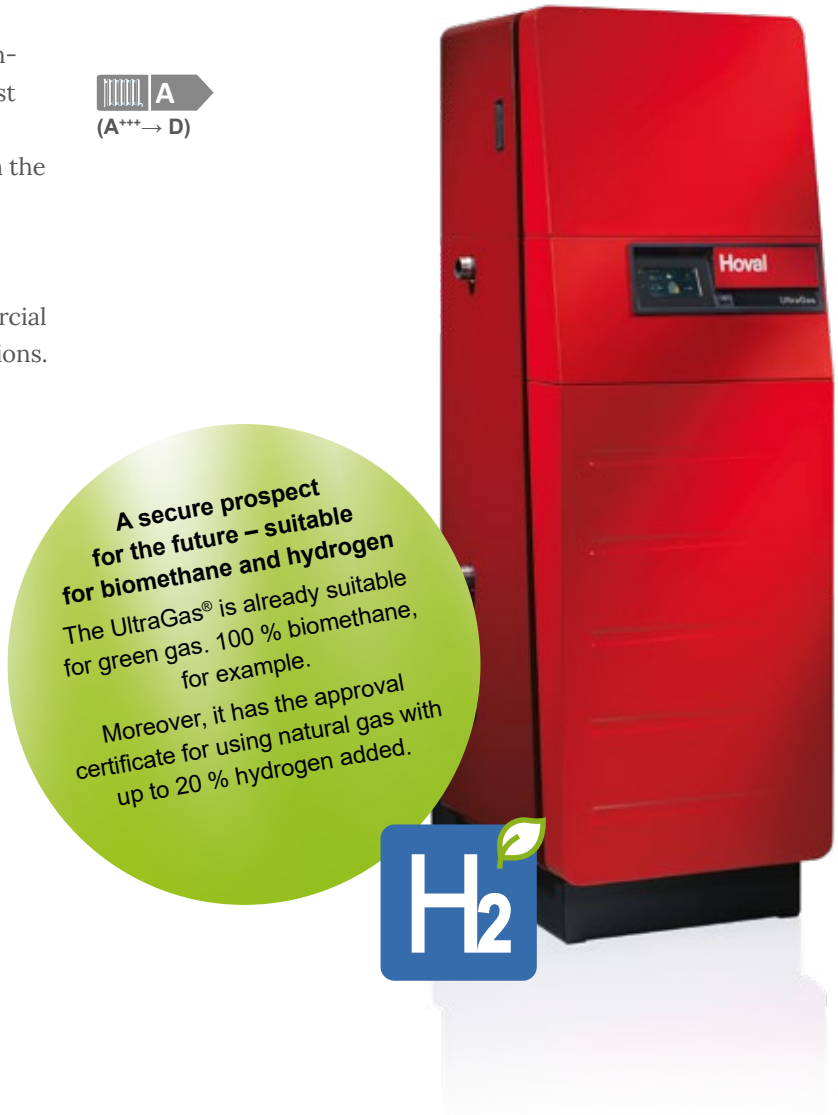
- Durable materials
- High-quality workmanship
- A range of combinations
- A secure investment
- Compact installation and transport dimensions

UltraGas®

Gas condensing boiler for heating and generating domestic hot water with the lowest possible operating costs. Floor-mounted, infinitely variable output adjustment, with the Hoval TopTronic® E system controller.

Area of application: single-family homes, two-family homes, blocks of flats, commercial buildings – for new buildings and renovations.

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(A^{+++}→ D)





Durable

The Hoval UltraGas® gas condensing boiler has been a success story for over 20 years, with owners all over the world appreciating its durability. The secret is the high-quality materials used. And the aluFer® heat exchanger, made of corrosion-resistant stainless steel on the water side, is a particular jewel in the crown.

Versatile

As a heat supplier in your heating system, the UltraGas® is a real all-rounder. It also scores highly when it comes to integration, since it features a large water capacity and two separate returns for low and high temperature, making installation easier. It can handle even large differences between the flow and return temperatures with no problem at all.

The UltraGas® also stands out due to its flexibility, as it can easily be combined with any type of heat generator and solar energy system. Its large water capacity takes on the function of a heat accumulator. The UltraGas® allows for the use of simple hydraulic systems – ideal when replacing a boiler. Regardless of the choice of system, it reliably supplies heat and guarantees safe operation.

A secure investment

In terms of both economical and energy efficiency, the UltraGas® gas condensing boiler meets the highest requirements. Its technical and design details ensure the best efficiency and thus reduce gas consumption.

It is flexible when it comes to the use of different fuels. The UltraGas® not only supports pure natural gas and liquid gas, but also biomethane of natural gas quality. Due to its bat-wing burner with UltraClean system, it can look ahead to future emissions standards with confidence. And should a component fail, Hoval will still have the right spare parts available, even after more than 15 years. Opting for an UltraGas® gas condensing boiler means investing in a secure and durable heat supply!

The total UltraGas® package represents ultimate efficiency

Due to its large water capacity, the Hoval UltraGas® does not require a minimum amount of circulating water. A primary pump is not necessary. The low resistance of the water flowing through means that the circulating pump of the heating system has to work less and can be designed to be smaller. These are all factors that save power and therefore reduce operating costs.

Compact, space-saving design

Unlike other boilers, the aluFer® heat exchanger is installed vertically. This saves up to 30% more space. The boiler is easy to transport and takes up little space in boiler rooms. It can be positioned directly against a wall without the need for clearance. The heating flow can be flexibly located on the left or right. This makes the UltraGas® the best choice in the renovation sector.





The **aluFer® heat exchanger** made from a combination of aluminium (on the inside) and stainless steel (on the outside) provides maximum conductivity. Due to its vertical installation in the boiler, the temperature stratification of the heating water is supported, contributing to an additional increase in efficiency. The modern gas condensing technology uses fuel up to 15% more efficiently than a low-temperature boiler.

Modulating fan-premix unit

The premix burner developed by Hoval modulates the heat output. This means that it continuously adapts its output to the heat demand between 15 and 100%, which avoids having to restart the heating system. This in turn saves energy, increases efficiency and reduces CO_2 emissions.

Low maintenance requirements

Any deposits in the heat exchanger drop down by themselves due to the vertical configuration. The heat exchanger cleans itself almost independently. Residue-free combustion also reduces maintenance to a minimum. The stainless steel construction of the UltraGas® is resistant to limescale and dirt. All components are readily accessible, easy to clean and can be replaced quickly in the event of a breakdown. For example, the entire burner assembly can be conveniently pivoted out for maintenance. A maintenance indicator automatically issues a reminder when a service is required.



Hoval TopTronic® E

As little control as necessary.





Hoval TopTronic® E
is the uniform system controller for Hoval heat generators and comfort ventilation as well as other components such as solar plants or calorifiers. It connects the individual components and ensures that they interact in the most energy-efficient manner. All the connected components can be adjusted using the same control module. HovalConnect enables the Hoval TopTronic® E control system to be accessed via a smartphone app.

Straightforward

One control system for everything. You do not need to worry about a thing. Once set up, the TopTronic® E system controller automatically provides the right temperature in your rooms, domestic hot water and even a pleasant supply of fresh air.

Convenient

Operate your Hoval system from anywhere. The HovalConnect-App allows you to operate your system when you are on the go. The app lets you adjust temperatures, select the programmes you want or switch your system from holiday mode. It even takes into account the weather forecast, preventing rooms from overheating and saving on expensive heating energy.

Informative

The room control module's large display enables you to view information ranging from the most important system data down to the weather forecast. And no matter which unit you're using, the heating system automatically reports when a service is required or faults occur.

Hoval UltraGas®
Technology and system.

Hoval UltraGas®		(15)	(20)	(27)	(35)	(50)	(70)	(100)
Energy efficiency class (A^{+++} → D)		A	A	A	A	A	A	
Room heating energy efficiency with controller and room sensor ηs	%	96	96	96	96	96	96	96
Nominal heat output at 80/60°C	kW	3.0–14.3	3.8–18.7	4.5–25.0	5.2–33.0	7.5–46.0	12.1–64.5	19.0–92.0
Nominal heat output at 50/30°C	kW	3.0–15.2	4.0–20.2	5.0–26.9	5.8–34.3	8.0–48.8	13.5–69.0	20.9–99.0
Boiler efficiency at 80/60°C in full-load operation (H_i/H_s)	%	97.5/87.8	97.0/88.1	97.9/88.2	97.9/88.2	98.0/88.3	98.0/88.3	97.6/87.9
Boiler efficiency at 30% partial load operation (H_i/H_s) (according to EN 15502)	%	107.9/97.2	108.0/97.3	108.0/97.3	108.1/97.4	108.1/97.4	108.1/97.4	108.1/97.4
Boiler water content	litres	57	55	51	81	75	157	144
Sound power level of heating noise (EN 15036 Part 1) (dependent on room air)	dB(A)	57	62	66	62	60	64	67

Effective in a system

Hoval supplies all components for an efficient heating and room air system. The Hoval TopTronic® E system controller combines all components into an efficient overall system. This solution ensures you are provided with standardised operation and matching components.



Hoval heat generators



Hoval solar plant



Hoval storage tanks



Hoval comfort ventilation

We are there for you

And we have been for generations.



Consulting and design

Whether you're looking for a heating, cooling or ventilation solution, for a new building or a renovation project, Hoval is here to give you expert advice. Do you design, install or operate systems? Or are you an investor? Then we speak your language. Experienced Hoval consultants gain an in-depth understanding of your requirements and suggest appropriate solutions on that basis.

Service expertise

Do you need to have a system commissioned or serviced? Then contact your Hoval customer service representative or local qualified Hoval partner. Regular maintenance will extend your system's service life. Your investment will retain its value over many years and operation will remain as economical as possible.



Hoval quality.
You can count on us.

Hoval

Hoval is one of the leading international companies for heating and indoor climate solutions. Drawing on more than 75 years of experience and benefiting from a close-knit team culture, the Hoval Group delivers exciting solutions and develops technically superior products. This leadership role requires a sense of responsibility for energy and the environment, which is expressed in an intelligent combination of different heating technologies and customised indoor climate solutions.

Hoval also provides personal consultations and comprehensive customer service. With around 2500 employees in 15 companies around the world, Hoval sees itself not as a conglomerate, but as a large family that thinks and acts globally.
Hoval heating and indoor climate solutions are currently exported to more than 50 countries.

Responsibility for energy and environment

Liechtenstein
Hoval Aktiengesellschaft
9490 Vaduz
+423 399 24 00
hoval.com

United Kingdom
Hoval Ltd.
Newark Notts. NG 24 1JN
+44 1636 672 711
hoval.co.uk

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Your Hoval partner