

# Hoval

## Hoval TopGas®

Outstanding durability in a compact design.

Economical | Compact | Robust



# Hoval TopGas®

## Wall-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. Natural gas can be turned into an even greener source of energy by adding biomethane (which meets the quality requirements of natural gas) to it.

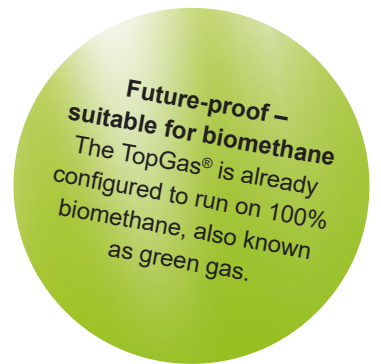
### Added value for you:

- Excellent value for money
- Compact dimensions
- Robust condensing technology
- Efficient output adjustment (modulation)



One programme for all requirements. Gas condensing boiler for heating and generating domestic hot water. Wall-mounted, infinitely variable output adjustment with controller.

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





### Economical

In terms of value, the Hoval TopGas® gas condensing boiler is virtually unrivalled. Efficient and high-quality components are combined to form a long-lasting wall-mounted gas boiler that lives up to Hoval's high quality standards. Service costs are low, as the TopGas® gas condensing boilers are particularly easy to maintain. Boasting a long service life, low operating costs and a favourable price, modern, highly efficient condensing technology does not have to be expensive.

### Compact

The TopGas® wall-mounted heaters provide modern gas heating technology in the smallest of spaces. Their compact dimensions and small depth mean that TopGas® condensing boilers need very little space. They are suitable for room-sealed operation and therefore do not require a special boiler room. Whether it's in the basement, in the attic, in utility rooms or – owing to the extremely quiet operation – even in living areas, the TopGas® can easily be mounted on the wall anywhere, freeing up valuable floor space, which could be used for the matching white storage tank from Hoval, for example.

### Robust

The TopGas® condensing boilers are particularly durable. The heart of the boiler – the heat exchanger – is made up of a mixture of aluminium and copper, making it particularly resistant to corrosion. This sophisticated design prevents harmful deposits. Servicing that retains value comes naturally with TopGas® condensing boilers. All components are easy to access and can be thoroughly cleaned or simply replaced – even the heat exchanger can be replaced in just a few steps. This enables safe operation and a long service life.



The TopVal storage tank for installation below the boiler or the CombiVal storage tank for adjacent installation are available in a white design to match the TopGas®.

### Durable condensation heat exchanger

The heat exchanger in the TopGas® consists of an aluminium ribbed body with a copper water channel. Due to a combination of high-quality materials – aluminium with high conductivity (exhaust gas side) and corrosion-resistant copper (water side) – both maximum heat transfer and a long service life are achieved.

The heating water flows through the aluminium ribbed body in a single, meander-type water channel. The continuous flow of water prevents deposits, which can occur in standing water in channels connected in parallel.

The heat exchanger's aluminium ribs can be cleaned quickly and easily.

This enables long-term high efficiency and a long service life.

In the TopGas® combi, the heat exchanger has an additional copper water channel for water heating.



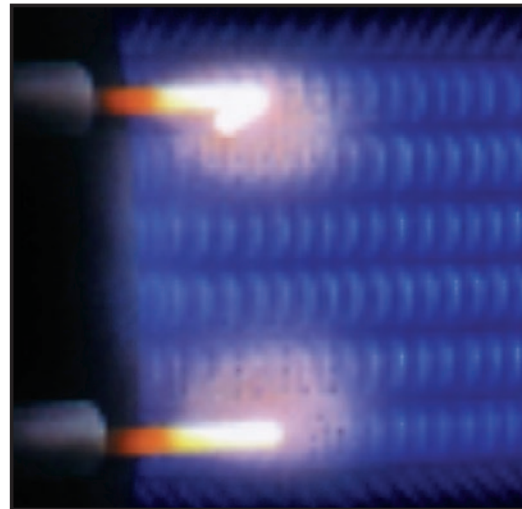
TopGas® heat exchanger:  
A sophisticated mix of conductive aluminium and corrosion-resistant copper.  
The TopGas® combi (behind) has an additional copper water channel for water heating.

### Modulating premix burner for high efficiency

In the fan-premix unit, a finely tuned, homogeneous gas/air mixture is produced, which is optimised for the subsequent combustion. The output is matched (modulated) to the heat demand using the rotational speed of the fan. Reducing the speed of the fan reduces energy consumption.

As the burner runs continuously, even when the output is adjusted, energy-consuming start-up processes are eliminated and increased emissions are also avoided.

When combined with a solar plant, these energy-intensive start-stop processes in the gas boiler can be further reduced by means of the solar plant's buffer storage tank.



In the bat-wing burner, the gas/air mixture is ignited on the surface of a metal fabric and burns gently, virtually without flame. The majority of the heat is given off as infrared radiation. Here, the combustion temperature is consistent and lies within an optimum range, resulting in ultra-low pollutant emissions.

### Perfect for renovations due to rapid installation

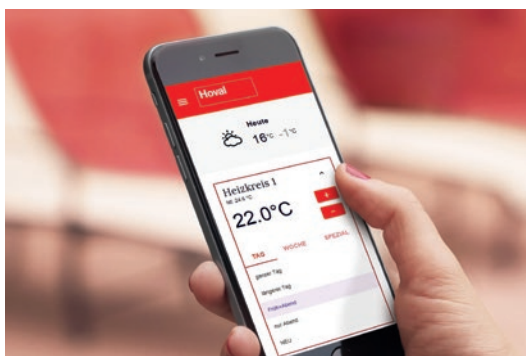
Due to their low weight and compact design, TopGas® condensing boilers are no hassle to move around. They will fit through any doorway and staircase, making them especially practical for renovations. Installation is easy too: TopGas® condensing boilers are delivered

fully assembled and can be mounted quickly and easily thanks to the colour-coded connector system.



## Hoval TopTronic® E

As little control as necessary.



### 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 with the HovalConnect online service. The app lets you adjust temperatures, select the programmes you want or switch your system from holiday mode. HovalConnect 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. The HovalConnect dashboard also lets you check your system's output and consumption data. And no matter which unit you're using, the heating system automatically reports when a service is required or faults occur.



**RS-OT heating controller**  
As an alternative to the system controller, TopGas® condensing boilers are available with the RS-OT heating controller as standard. This provides the important basic functions and can be positioned in a living area or boiler room as a room station. In the case of the TopGas® comfort, it can be mounted in the casing.

#### 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. The HovalConnect online service enables the Hoval TopTronic® E control system to be accessed via a browser or a smartphone app.

### TopGas® classic

For what's important

For simple systems or as a flexible additional boiler in hybrid systems.

- RS-OT controller
- TopTronic® E in the wall casing



Hoval TopGas® classic		(12)	(18)	(24)	(30)
Energy efficiency class		A	A	A	A
Room heating energy efficiency with controller and room sensor $\eta_s$	%	96	96	97	97
Nominal heat output at 80/60°C	kW	3.4–11.5	5.3–17.2	7.0–22.9	8.7–28.5
Nominal heat output at 50/30°C	kW	3.8–12.0	5.7–18.0	7.7–24.0	9.2–30.0
Boiler efficiency at 80/60°C in full-load operation ( $H_i/H_s$ )	%	97.7/88.0	96.9/87.3	97.4/87.7	98.4/88.6
Boiler efficiency at 30% partial load operation ( $H_i/H_s$ ) (according to EN 15502)	%	108.8/98.0	108.3/97.6	108.9/98.1	108.3/97.6
Boiler water content	litres	1.4	1.7	2.0	2.0
Sound power level of heating noise (EN 15036 Part 1) (dependent on room air)	dB(A)	50	50	50	50

### TopGas® comfort

For straightforward system integration

Comprehensively equipped for complex systems.

- RS-OT controller
- TopTronic® E in the unit



Hoval TopGas® comfort		(10)	(15)	(22)
Energy efficiency class		A	A	A
Room heating energy efficiency with controller and room sensor $\eta_s$	%	93	94	94
Nominal heat output at 80/60°C	kW	2.7–9.1	2.6–14.6	4.1–20.1
Nominal heat output at 50/30°C	kW	3.1–10.0	2.9–16.0	4.5–22.0
Boiler efficiency at 80/60°C in full-load operation ( $H_i/H_s$ )	%	96.1/86.6	96.1/86.5	95.7/86.2
Boiler efficiency at 30% partial load operation ( $H_i/H_s$ ) (according to EN 15502)	%	105.9/95.4	106.0/95.5	106.1/95.6
Boiler water content	litres	1.4	1.7	2.0
Sound power level of heating noise (EN 15036 Part 1) (dependent on room air)	dB(A)	46	51	54

### TopGas® combi

Heating and domestic hot water

With integrated calorifier – for simple systems with water heating

- RS-OT controller



Hoval TopGas® combi		(21/18)	(26/23)	(32/28)
Energy efficiency class		A / A	A / A	A / A
Room heating energy efficiency with controller and room sensor $\eta_s$	%	95	96	97
Water heating energy efficiency $\eta_{wh}$	%	83 (L)	85 (XL)	85 (XL)
Nominal heat output at 80/60°C	kW	5.4–17.8	6.9–22.8	7.1–26.3
Nominal heat output at 50/30°C	kW	5.9–18.6	7.6–23.4	7.8–27.1
Boiler efficiency at 80/60°C in full-load operation ( $H_i/H_s$ )	%	95.4/85.9	96.2/86.7	96.5/86.9
Boiler efficiency at 30% partial load operation ( $H_i/H_s$ ) (according to EN 15502)	%	107.1/96.5	107.9/97.2	108.5/97.7
Boiler water content	litres	1.4	1.7	2.0
Sound power level of heating noise (EN 15036 Part 1) (dependent on room air)	dB(A)	45	45	45
Hot water output 45°C	dm <sup>3</sup> /10 min	60	80	124

# 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.

As a specialist in heating and climate technology, Hoval is your experienced partner for system solutions. For example, you can heat water with the sun's energy and your rooms with oil, gas, wood or a heat pump. Hoval ties together the various technologies and also integrates room ventilation into the system. So you can save energy while looking after the environment and your costs – and still enjoy the same level of comfort.

Hoval is one of the leading international companies for indoor climate solutions. More than 75 years of experience continuously motivate us to design innovative system solutions. We manufacture complete systems for heating, cooling and ventilation to more than 50 countries.

We take our responsibility for the environment seriously. Energy efficiency is at the heart of the heating and ventilation systems we design and develop.

## Responsibility for energy and environment

### **Germany**

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Your Hoval partner