

Hoval

Hoval UltraOil®

Proven technology with a modern touch.

Proven | Durable | Efficient



Hoval | Responsibility for energy and environment

Hoval UltraOil®

Oil condensing boiler.

Fuel oil has been a proven source of heat for many years. Simple and versatile: heating with traditional oil is often still the cheapest alternative. Oil has a high energy density and is easy to store. Modern oil heating systems with condensing technology are convenient, particularly fuel-efficient, save energy and can be used with biofuel oil.

Added value for you:

- Proven technology
- Durable, high-quality materials
- Ultimate efficiency
- Low space requirements
- Flexible use, perfect for renovations

Oil condensing boiler with aluFer® heat exchanger for heating and generating domestic hot water. Floor-mounted, output adjustment in stages, with the Hoval TopTronic® E system controller.

Area of application: single-family homes, two-family homes – for renovations.

A



EL low-sulphur fuel oil / eco fuel oil

The UltraOil® was specifically designed to be run on the latest-generation EL low-sulphur or eco fuel oil. The sulphur content of this fuel oil is on a par with that of natural gas and, as a result, sulphur emissions are almost non-existent. This leads to a reduction in deposits in the heat exchanger, keeping efficiency constantly high.



Proven

Oil heating technology has been continuously developed over the decades. The Hoval UltraOil® makes use of this proven technology, which can be used almost everywhere, but with the latest condensing technology and a sophisticated design, it extracts maximum heating energy from the oil. It doesn't get much cheaper or more efficient than this.

The UltraOil® has also been further developed when it comes to environmental considerations. Hoval customers have already been successfully using renewable liquid fuels for a number of years.

Durable

High-quality materials and technical details ensure long, reliable use of the UltraOil®. The entire boiler body and all parts that come into contact with heating water are made of durable stainless steel.

The UltraOil® uses a two-stage low-NOx burner, which can adapt its output to requirements. This significantly reduces energy-intensive burner start-ups, allowing the burner to run continually and spend longer in its optimum output range. Due to the lower load, the burner and boiler last longer.

Highly efficient

Due to its large water capacity, the Hoval UltraOil® 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.

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. Therefore, the modern oil condensing technology uses fuel up to 10% more efficiently than a low-temperature boiler.



aluFer® heat exchanger

Secure supply

Fuel oil arrives at your home from a wide variety of countries via different routes (inland refineries, rivers, rail and road). Both fuel oil and renewable liquid fuels require very little storage space, which supports security of supply. This means that energy is available whenever you need it.

Compact, space-saving design

The compact casing of the UltraOil® stands out for its low space requirements. Unlike other boilers, the aluFer® heat exchanger is installed vertically. This saves up to 30% more space during installation. The boiler is easy to transport – especially in old buildings – and takes up little space in boiler rooms.

The UltraOil® (16–50) can be connected either on the left or on the right and can therefore be placed close to the wall. This is particularly advantageous when replacing heating systems during renovations.

Boiler replacement during renovations

The Hoval UltraOil® is also the ideal solution when carrying out renovations for another reason: the intelligent design concept enables simple integration into all – even existing – systems. Due to the large water capacity, the UltraOil® does not need a minimum amount of circulating water, or minimum boiler, return or flue gas temperatures. This is of particular value if the boiler needs to be replaced.

Systems for the energy transition

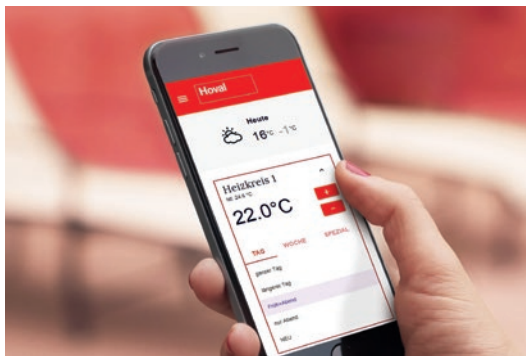
National laws within Europe stipulate that a large percentage of the energy used for heat generation must come from renewable sources. The Hoval UltraOil® can be simply combined with a variety of renewable sources of energy, such as solar plants or air-heat pumps. Hoval provides complete systems from a single source – perfectly coordinated and controlled centrally with the TopTronic®E system controller. Systems with the best possible efficiency, while at the same time guaranteeing the lowest emissions.





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

Hoval UltraOil®

Technology and system.

Hoval UltraOil®		(16)	(20)	(25)	(35)	(50)	(65)	(80)
Energy efficiency class		A	A	A	A	A	A	—
Room heating energy efficiency with controller and room sensor η_s	%	96	96	96	96	98	98	98
Heat output at 40/30°C, 1st stage	kW	12	14	16	22	30	41	52
Heat output at 40/30°C, 2nd stage	kW	16	20	25	35	50	65	80
Boiler efficiency at 80/60°C in full-load operation (H_i/H_s)	%	98.3/92.7	98.5/92.9	98.2/92.6	98.5/92.9	98.7/93.1	98.5/92.9	98.4/92.6
Boiler efficiency at 30% partial load operation (H_i/H_s) (according to EN 303)	%	103.9/98.0	104.2/98.3	104.1/98.2	104.2/98.3	104.7/98.8	104.5/98.6	104.2/98.3
Boiler water content	litres	66	63	68	65	115	135	135
Sound power level of heating noise (EN 15036 Part 1) (dependent on room air)	dB(A)	61	62	66	63	71	69	65

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.



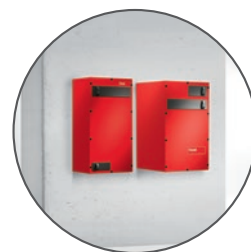
**Hoval
heat generators**



**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

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

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Your Hoval partner