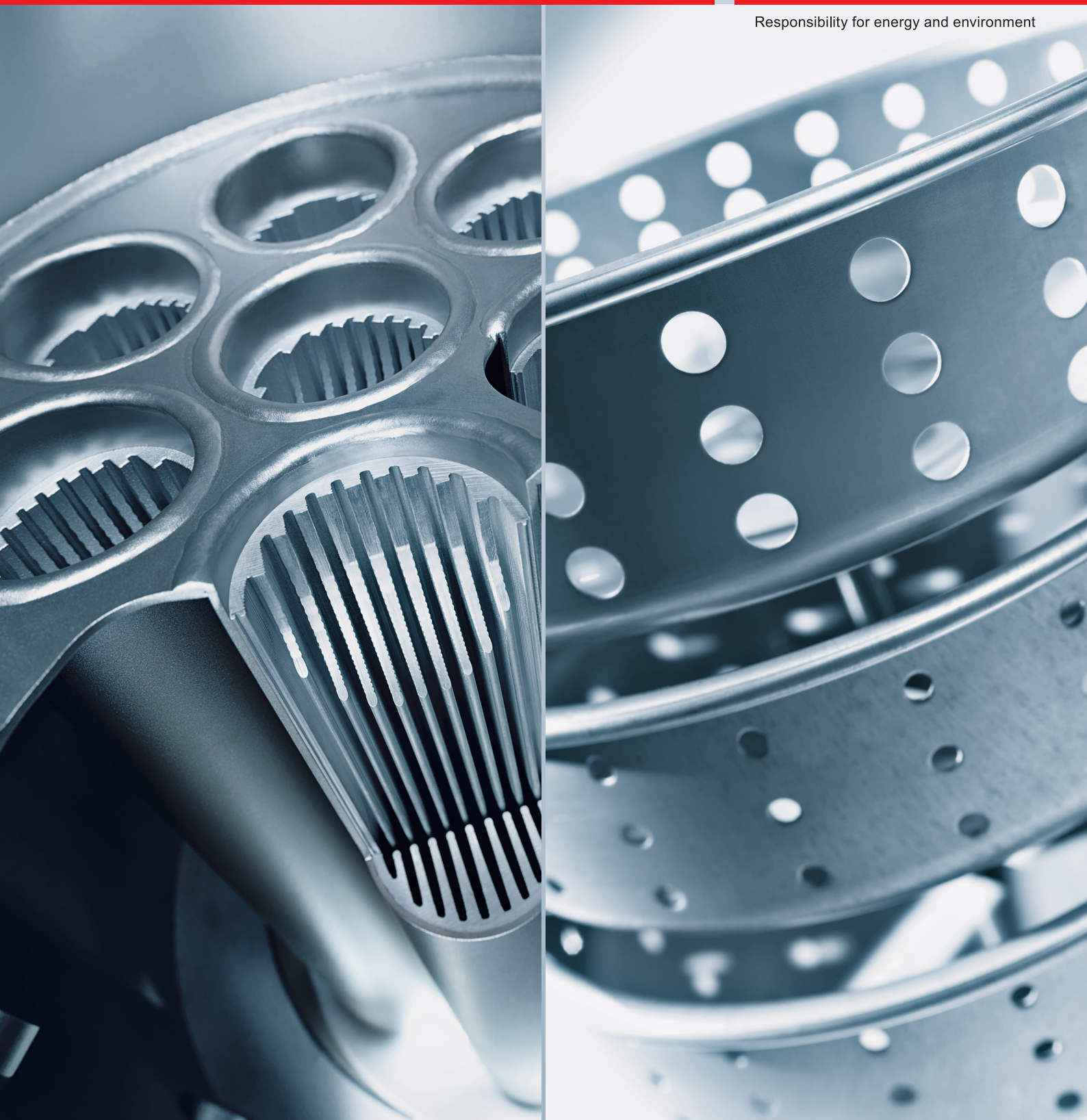


Condensing oil boilers

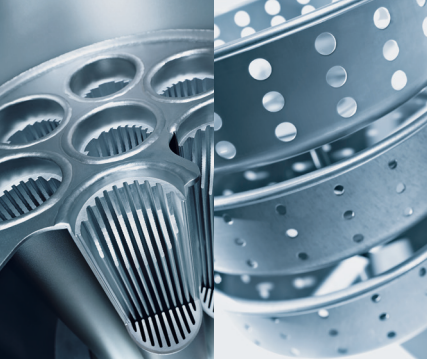
UltraOil® ▪ MultiJet®

Hoval

Responsibility for energy and environment



State-of-the-art condensing boiler technology
for efficient use of valuable oil resources.
Ideal for renovating small and large systems.



Front page:

Close-up of the heat exchangers, which ensure maximum heat transmission and maximum efficiency in Hoval condensing oil boilers.

The UltraOil® is fitted with the patented aluFer® heat exchanger (left), which is of special construction with a combination of aluminium and stainless steel.

The MultiJet® has seven stages of jet heat exchanger (right) which are connected one above the other.

Condensing oil boilers. UltraOil® (16-600D) and MultiJet® (12-25)

Hoval condensing oil boilers are the latest generation of boilers, which generate the maximum heat energy from the oil through the use of advanced technology and sophisticated design. The central concept for every Hoval solution is always the same: to achieve maximum efficiency while at the same time minimising emissions.

Hoval UltraOil® with its comprehensive and optimally graduated range of outputs has succeeded in this by using modern condensing boiler technology with patented heat exchanger aluFer®. For the MultiJet®, it is its patented jet heat exchanger, which is suitable for all grades of light fuel oil and biofuel, that is the key to success.

Both condensing oil boilers are perfect for replacing existing oil heating systems during renovation. In addition to the cost saving resulting from reduced oil consumption, installing and connecting a new Hoval condensing oil boiler is also fairly hassle-free. The MultiJet® boilers are small enough to fit low ceilings, through standard doorways and can be disassembled if necessary.



Strong Systems

A particularly strong system are UltraOil® and MultiJet®, together with other components from Hoval, and centrally controlled by the TopTronic®E.

Hoval system controller
TopTronic®E



Hoval solar energy systems



Hoval comfort ventilation



Hoval calorifiers



Hoval buffer storage tanks



Hoval fresh water module



Hoval air/water heat pumps

Condensing oil boilers. UltraOil® (16-600D) and MultiJet® (12-25)



Ready for the
energy transition
laws

System solutions with
renewable energy

See page 14



MultiJet® (12-25)

Frugal, space-saving and with low emissions – suitable for all types of heating oil. Ideal for upgrading small heating systems.

UltraOil® (16-80)

Ideal as a replacement oil heating system in single family homes and small multi-dwellings.

UltraOil® (110-600D)

Can be disassembled for installation and used flexibly within a system. Perfect for upgrading large systems. (Double boiler not shown)

Starting in
September 2015
is the new classified
ErP labelling for
Space heaters,
Combi heaters, Boilers
and Energy Buffers
in order to aid in
Energy Efficiency and
Resource Conservation.



UltraOil®from page 5
MultiJet®from page 10

System controller TopTronic® E. The new generation.



Smart – cosy climate even when the weather is changing.



Ecological

Take responsibility for Energy and Environment and live comfortably at the same time. This is now easier than ever before.

With the new generation boilers and heat pumps from Hoval you will use less energy, reduce your environmental footprint and preserve the planet.

Reliable

You can fully rely on us.

The new generation Hoval boilers and heat pumps will automatically inform you and our service when they need maintenance or repair.

A Hoval service partner is always near you. More than 500 000 satisfied customers worldwide can confirm this. Our references speak for themselves.

Economical

The new generation Hoval boilers and heat pumps have best in class efficiency helping you to cut your energy bill.

They give you real time and historical information about their performance and efficiency so you always have an overview on your energy costs. With a click of a mouse.

Smart

Automatically use the weather forecast in real time to heat up your house in cold mornings but reduce the power in a warm afternoon.

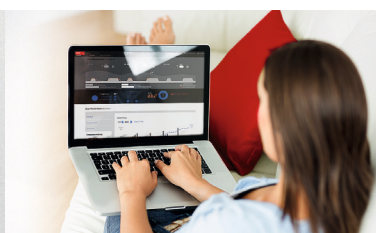
Let you control your heating over your smartphone to adjust it to your daily or weekly routine - so you save energy during a working day but enjoy a cosy warmth in the evening.



Control your heating over your smartphone.



Easy control in the living room.



Hoval desk – overview on energy costs.



Automatic service information.

UltraOil® (16-80) and (110-600D). Advantages at a glance.

The core of the UltraOil® is the patented aluFer® heat exchanger. The combination of advanced condensing boiler technology and two-stage burner means the UltraOil® is second to none in terms of energy efficiency, economy and payback period. UltraOil® models are the system of choice when it comes to replacing existing oil heating systems.

The intelligent design principle enables ready integration into all – even existing – systems. The UltraOil® can be disassembled for installation in narrow basement rooms, so even the powerful double boiler can fit through standard doorways.

Economical



Patented aluFer® heat exchanger

- **Low heating costs and rapid return on investment**
due to the latest condensing boiler technology with patented aluFer® heat exchanger
- **Energy Consumption Indicator**
for permanent cost control
- **Higher energy yield** with more efficient condensation and two-stage burner technology
- **Up to 15% higher efficiency** compared to conventional low-temperature boilers

Ecological



Low-emission operation

- **Low CO₂ emissions**
due to considerable reduction in fuel consumption
- **Clean and economical**
due to fewer start-stop procedures
- **Simple adjustment of operating times**
facilitates energy-conscious heating

Easy to use



High thermal comfort

- **High thermal comfort**
due to its predicting the future outside temperature and sunlight (using an online weather forecast)
- **Low maintenance**
- **Maintenance indicator**
which automatically reminds you when a service is required

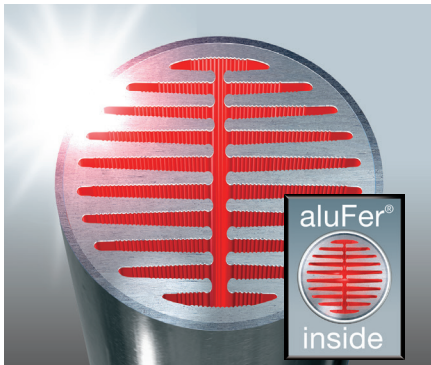
Sophisticated



Flexible use, ideal for renovations

- **Can be dissembled if necessary**
to fit low ceilings and through standard doorways
- **Time-saving installation**
due to flexible connection options
- **Less planning effort** due to easy integration in existing systems, therefore ideal for upgrades
- **Smartphone-App**
for easy adjustability whilst you're on the road, and receiving system messages in real time

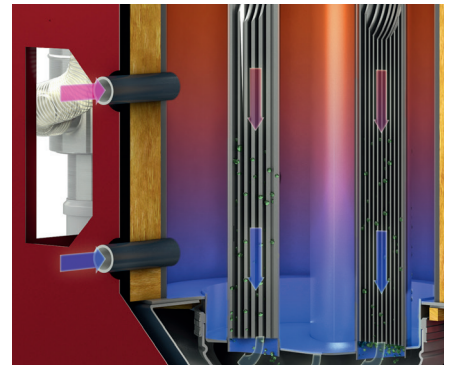
UltraOil® (16-80) and (110-600D). Maximum efficiency, low emissions ...



aluFer® heat exchanger for maximum efficiency



Two-stage low-NOx oil burner for minimum emissions and high efficiency.



Separate high- and low-temperature returns for optimum condensation.



Hoval aluFer® and advanced condensing boiler technology

State-of-the-art condensing boiler technology with the internationally patented Hoval aluFer® heat exchanger enables an additional heat recovery of 15% compared to a low-temperature boiler, thus making the UltraOil® an economical and highly efficient alternative.

The special fin design of the aluFer® heat exchanger results in a five times larger heat exchange surface. This boosts the recovery of energy from flue gases and significantly increases efficiency. Additionally, durable materials – aluminium on the inside and stainless steel on the outside – with excellent conductivity improve the transfer of heat energy to the boiler water.



Low-emission operation with low-sulphur light fuel oil

The UltraOil® was specifically designed to be run on the latest low-sulphur heating oil. The sulphur content of this heating oil is on a par with that of natural gas and, as a result, sulphur emissions are almost non-existent. This spares the environment and leads to a reduction in deposits in the heat exchanger, thus keeping efficiency consistently high and maintenance requirements down.



Two-stage burner for maximum efficiency and low emissions

Conventional burners can adapt their output to the demand only by switching on and off. As they are dimensioned according to the maximum required output, they run in start-stop operation for the majority of the time.

The UltraOil® uses a two-stage low-NOx burner, which can adapt its output to requirements. This considerably reduces energy-intensive burner start ups, allowing the burner to run continually and thereby spending longer in its optimum output range and lowering emissions.

As well as an increased annual utilisation rate, this produces a whole raft of advantages for the environment and for your pocket:

- Up to 3% improved efficiency
- Reduced power consumption
- Lower emissions
- Low noise level
- Reduced maintenance requirements



Separate high- and low-temperature returns for optimum condensation

With the UltraOil®, there is the option of allowing the return lines from the high- and low-temperature circuits to in each case flow into the best location in the boiler. This maintains a stable temperature layering in the boiler and offers consistent ideal conditions for condensation. The condensation effect – and thus the efficiency of the condensing gas technology – increases by up to 6%. This means lower consumption and thus lower heating costs.



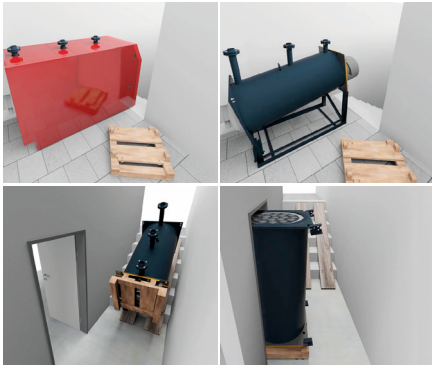
Sophisticated design for simple, low-cost maintenance

There are many details that make the UltraOil® particularly easy to maintain. For example, all components are easily accessible and can be cleaned effortlessly. In case of failure, they can be replaced quickly and at low cost.



One example of the sophisticated design: in order to simplify inspection and maintenance of the burner, in the UltraOil® (16-80) the entire burner assembly can be conveniently pivoted out.

... and perfect for renovations.



For installation, the UltraOil® can easily be disassembled into 3 parts to fit into even very small basement rooms.



Boiler can be disassembled for ease of installation in small basement rooms.

The large UltraOil® (110-600D) models are often the only choice for renovations, because it has been designed so that it can be manoeuvred into and installed even in awkward spatial conditions.

If necessary, the boiler can be disassembled into its 3 main sub-assemblies and transported to the installation location via narrow basement steps. Special pallets make it possible to transport the boiler body upright. Therefore, even the largest UltraOil® can fit through standard doorways.



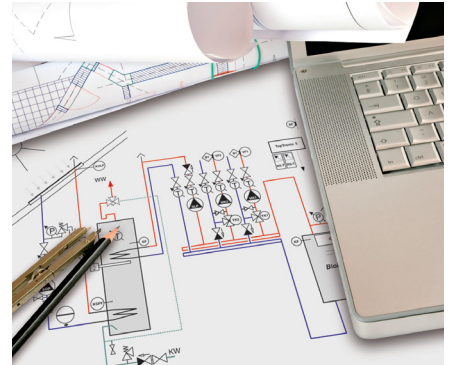
The UltraOil® stands out owing to its compact design and low space requirements.



Space-saving design

All UltraOil® models are compact units with no projecting attachments. In the UltraOil® (16-80) the boiler is vertical, and in its big brother UltraOil® (110-600D) it is arranged at an angle. Both models therefore feature a small foot-print and low space requirements.

Furthermore, the UltraOil® (16-50) can be positioned directly against the wall owing to the lateral connections (on the left or right as needed).



Less planning required due to straightforward hydraulic integration into existing systems.

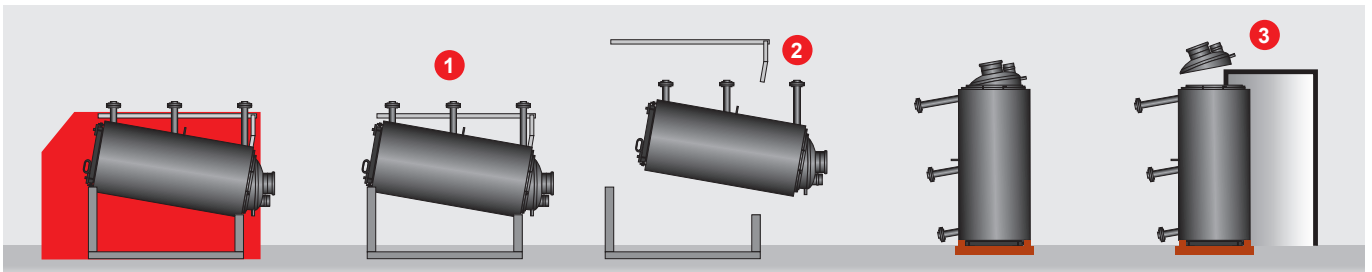


Large water capacity for straightforward integration into existing systems

Due to the large water capacity, the UltraOil® does not need a minimum amount of circulating water, nor minimum boiler, return or flue gas temperatures.

This is especially practical when replacing existing boilers, because the UltraOil® can be integrated easily into any existing heating system.

In addition, because of the low circulation volume and high temperature difference between the flow and return lines, there is no need for a primary pump. This saves energy.

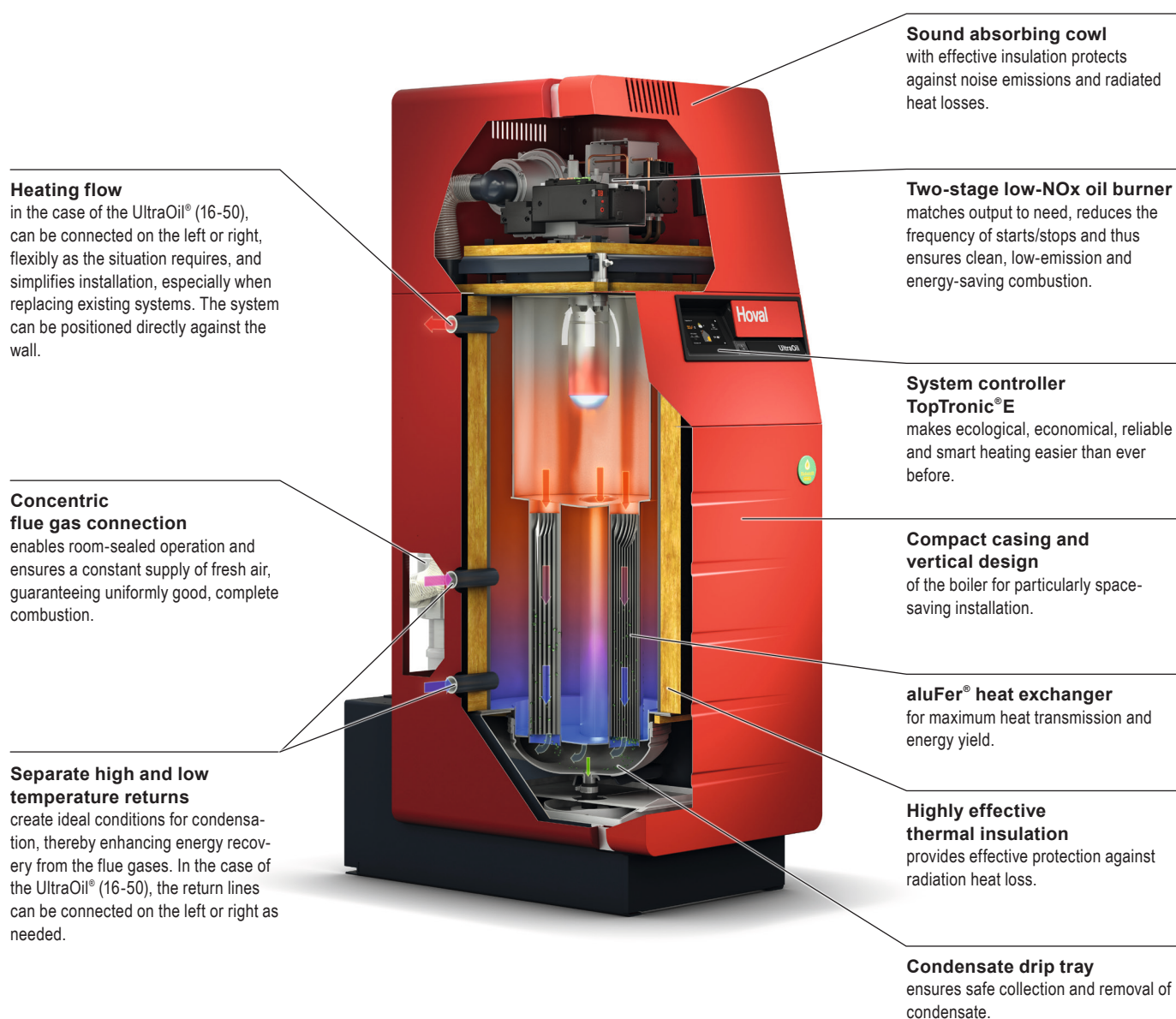


The ingenious design (1: boiler as delivered) means that in just a few steps it can be disassembled into three individual parts (2): support rail, boiler and substructure. The UltraOil® can therefore be installed in very cramped spatial conditions.

If the flue gas tray is additionally removed, even the largest UltraOil® will fit through standard doorways (3). Special sets for vertical transport are available as an accessory.

UltraOil® (16-80).

Compact, complete and flexible to install.



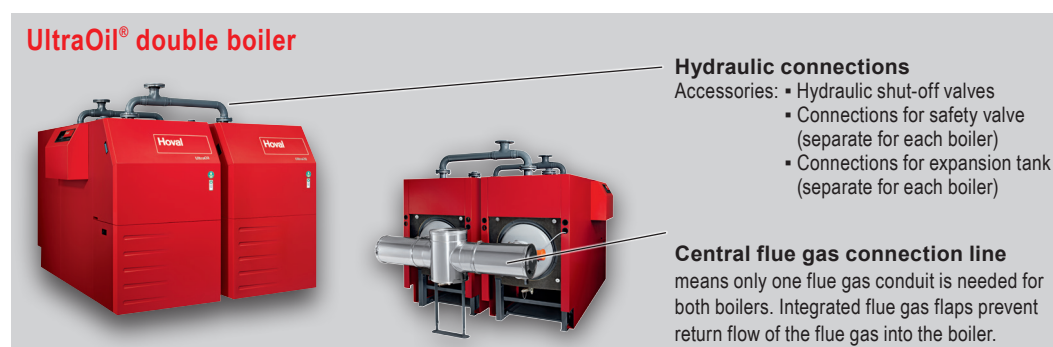
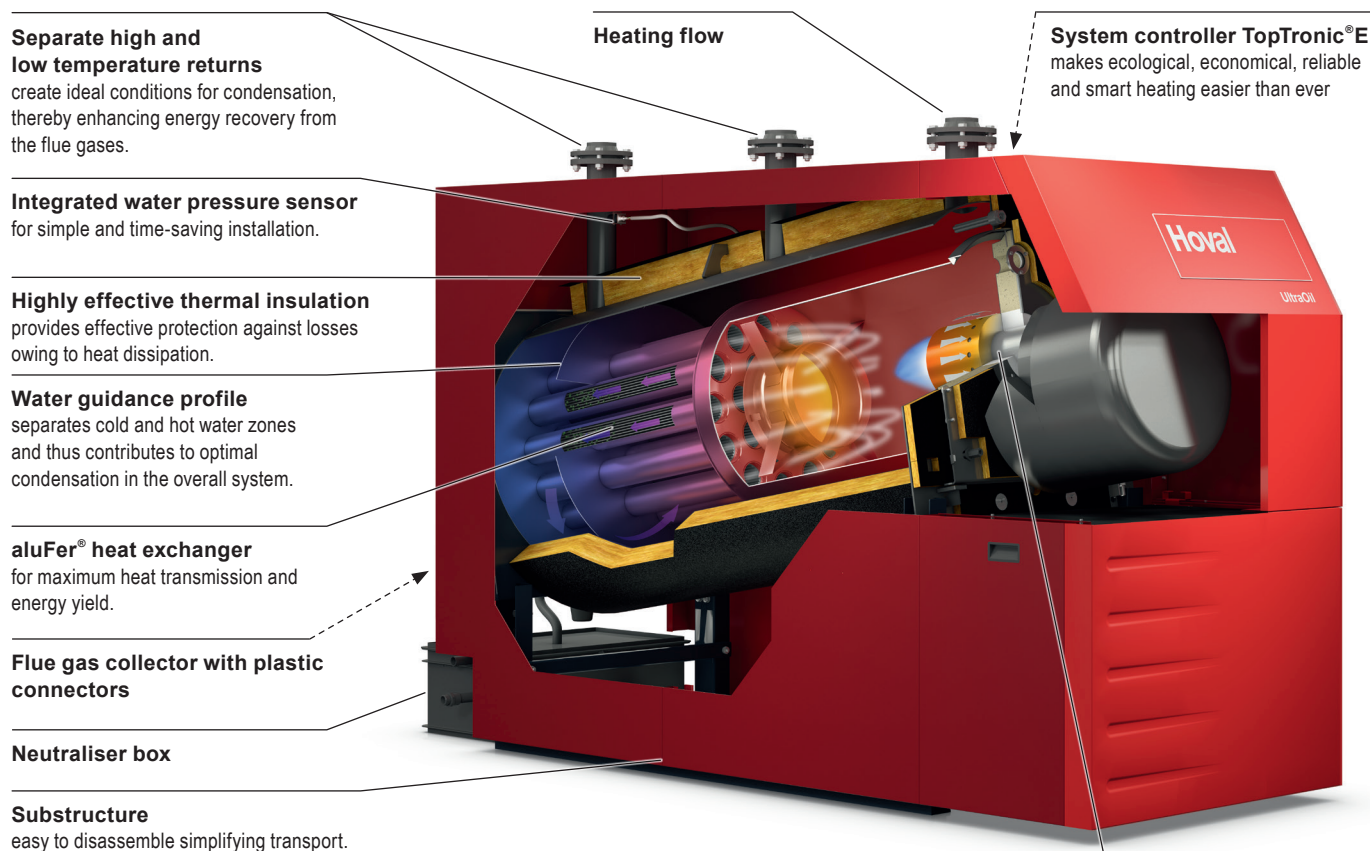
Technical data UltraOil®		(16)	(20)	(25)	(35)	(50)	(65)	(80)
Energy efficiency class (package label with controller)		A	A	A	A	A+ ***	A+ ***	–
Heat output range at 40/30°C *	kW	12 / 16	14 / 20	16 / 25	22 / 35	30 / 50	41 / 65	52 / 80
Heat output range at 80/60°C *	kW	11 / 15	14 / 19	15 / 24	21 / 33	28 / 48	38 / 62	48 / 77
Minimum boiler operating temperature	°C	No lower limit						
30% part load efficiency (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 capacity	Litres	66	63	68	65	115	135	
Weight (incl. casing and burner)	kg	140	145	157	164	276	360	
Transport weight	kg	134	139	151	158	261	317	
Dimensions W/H/D	mm	520 / 1550 / 820		520 / 1690 / 820		675 / 1715 / 990		820 / 1948 / 1367

* 1st stage / 2nd stage ** Relative to net/gross calorific value *** with room control module

Subject to changes

UltraOil® (110-300).

Ideal for renovations in large residential and commercial buildings.



Two-stage low-NOx oil burner

adapts output to need. Together with the large water capacity, this reduces energy-intensive burner start ups. This increases efficiency, ensuring lower emissions, quieter operation and reduced maintenance requirements.

Technical data UltraOil®		(110)	(130)	(160)	(200)	(250)	(300)	(320D)	(400D)	(500D)	(600D)
Heat output range at 40/30°C *	kW	83 / 110	104 / 130	119 / 160	155 / 200	189 / 250	227 / 300	119 / 320	155 / 400	189 / 500	227 / 600
Heat output range at 80/60°C *	kW	78 / 105	99 / 124	114 / 152	147 / 190	180 / 238	215 / 286	114 / 304	147 / 380	180 / 476	215 / 568
Minimum boiler operating temperature	°C	No lower limit									
30% part load efficiency (to EN 303) **	%	105.0/99.1	104.8/98.9	104.5/98.6	104.0/98.1	104.9/99.0	104.6/98.7	104.5/98.6	104.0/98.1	104.9/99.0	104.6 / 98.7
Boiler water capacity	Litres		340		360	295		680	720	590	590
Weight (incl. casing and burner)	kg		420		450	634		840	900	1268	1268
Transport weight	kg		370		390	534		740	780	1068	
Dimensions	W		1050		1050	1105		2205	2205	2260	
	H		1492		1492	1602		1955	1955	2063	
	D		2353		2545	2841		2709	2901	3284	

* 1st stage / 2nd stage ** Relative to net/gross calorific value

Subject to changes

MultiJet® (12-25). Advantages at a glance.

The patented jet heat exchanger and two-stage low-NOx burner are the technological core of the MultiJet®. With the latest condensing boiler technology for use with all types of heating oil, it enables economical and responsible use of valuable energy: compared to a low-temperature heating system, efficiency is increased by up to 15% – reducing emissions by up to 20% at the same time! The vertically layered arrangement of the seven jet stages gives the MultiJet® its compact, slim form. Flexible connections permit it to be installed close to walls, saving additional space.

Economical



Exceptional efficiency due to jet technology

- **High energy yield and low energy costs**
due to advanced condensing boiler technology with patented jet heat exchanger
- **Long service life**
due to corrosion-resistant stainless steel
- **Ideal, economical solution**
for oil heating system upgrades in existing buildings or for low energy houses
- **Energy Consumption Indicator**
for permanent cost control

Ecological



Low-emission operation

- **Clean and economical** due to fewer start-stop procedures of the two-stage low-NOx burner
- **Up to 50% lower pollutant emissions**
due to efficient combustion technology
- **Easily combined with solar installations**
to further improve the carbon footprint
- **Simple adjustment of operating times**
facilitates energy-conscious heating

Easy to use



High thermal comfort

- **High thermal comfort**
due to its predicting the future outside temperature and sunlight (using an online weather forecast)
- **Problem-free installation**
with straightforward integration into any system
- **Reliable and safe**
due to high-quality workmanship
- **No need to empty the tank when replacing an old heating system**
due to the use of robust stainless steel

Sophisticated



Compact and space-saving

- **Low space requirements**
due to vertical design
- **Easy to install**
due to compact, small dimensions
- **Suitable for all types of heating oil**
as well as biofuel and kerosene heating oil
- **Smartphone -App**
for easy adjustability whilst you're on the road, and receiving system messages in real time

MultiJet® (12-25).

Two-stage low-NOx oil burner

adapts output to need. Together with the large water capacity, this reduces energy-intensive burner start ups. This increases efficiency, ensuring lower emissions, quieter operation and reduced maintenance requirements.

Stainless steel jet stages

facilitate the condensation effect, enhancing energy recovery from the hot flue gases and reducing fuel consumption by up to 15%.

Concentric flue gas connection

enables room-sealed operation and ensures a constant supply of fresh air, guaranteeing uniformly good, complete combustion.

Separate high and low temperature returns

create ideal conditions for condensation, thereby enhancing energy recovery from the flue gases. The return lines can be connected on the left or right as needed.

Schallschluckhaube

schützt durch effektive Dämmung vor Geräuschemissionen und Verlusten durch Wärmeabstrahlung.

System controller TopTronic® E

makes ecological, economical, reliable and smart heating easier than ever before.

Compact casing and vertical design

with jet elements arranged one above the other for particularly space-saving installation.

Thermal insulation

provides effective protection against radiation heat loss.

Boiler base with neutraliser box (optional)

for easy draining of condensate directly into the drainage system.



Technical data

MultiJet®		(12)	(16)	(20)	(25)
Energy efficiency class (package label with controller)		A	A	A	A
Heat output range at 40/30°C *	kW	12.0	11.8 / 16.5	14.4 / 20.0	16.0 / 25.0
Heat output range at 80/60°C *	kW	11.1	11.1 / 15.6	13.6 / 19.2	15.4 / 24.2
Minimum boiler operating temperature	°C	No lower limit			
30% part load efficiency (to EN 303) **	%	104.5 / 98.6			
Boiler water capacity	Litres	35	35	50	58
Weight (incl. casing, sound attenuation cowl, burner)	kg	117	117	155	165
Transport weight	kg	105	105	137	152
Dimensions W/H/D	mm	520 / 1548 / 575	520 / 1548 / 575	520 / 1690 / 820	520 / 1840 / 820

* 1st stage / 2nd stage ** Relative to net/gross calorific value

Subject to changes

MultiJet® (12-25).

Condensing boiler technology with patented jet technology ...



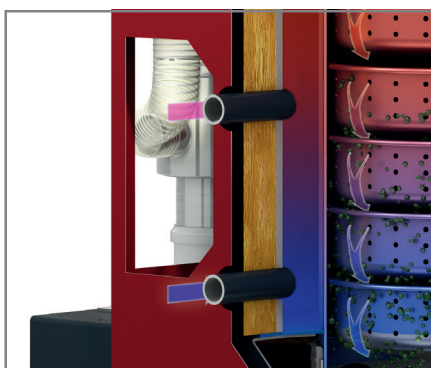
The 7 stages of the jet heat exchanger ensure maximum heat transmission.



Up to 15% more energy yield with jet technology and up to 20% lower emissions

With its jet heat exchanger, the MultiJet® achieves a higher energy yield than conventional oil heating systems. The jet inserts accelerate the hot flue gases which flow in from above and divert them at a right angle. The hot gases strike the water-cooled heating surfaces perpendicularly at high speed, thereby achieving maximum heat transmission rates.

In the MultiJet®, seven such jet stages are arranged one above the other, saving space. They cool the flow of flue gas from 1100°C down to 40°C, so returning a large part of the valuable heat energy to the heat circuit – energy that escapes up the chimney in conventional installations.

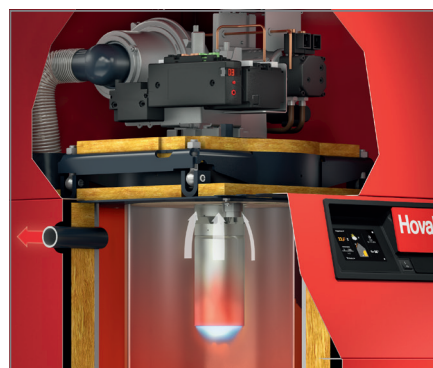


Separate high-temperature and low-temperature returns increase the efficiency of the condensing boiler design.



Separate high- and low-temperature returns for more efficient condensation

With the MultiJet®, there is the option of allowing the return lines from the high- and low-temperature circuits to in each case flow into the best location in the boiler. This maintains a stable temperature layering in the boiler and offers consistent ideal conditions for condensation. The condensation effect – and thus the efficiency of the condensing gas technology – increases by up to 6%, ensuring lower consumption and therefore reduced heating costs.



Two-stage low-NOx oil burner ensures low emissions and high efficiency.



Two-stage burner for maximum efficiency and low emissions

Conventional burners can adapt their output to the demand only by switching on and off. As they are dimensioned according to the maximum required output, they run in start-stop operation for the majority of the time.

The MultiJet® uses a two-stage low-NOx burner, which can adapt its output to requirements. This considerably reduces energy-intensive burner start ups, allowing the burner to run continually and thus spend longer in its optimum output range.

As well as an increased annual utilisation rate, this produces a whole raft of advantages for the environment and for your pocket:

- Up to 3% improved efficiency
- Reduced power consumption
- Lower emissions
- Low-noise operation
- Reduced maintenance requirements



Suitable for all grades of kerosene heating oil and for biofuel

The MultiJet® is designed for all grades of light fuel oil. This gives you more flexibility when purchasing fuel. If an old heating system is being replaced, there is no need to empty and clean the oil tanks in a time-consuming process

since the sulphur content of the remaining oil does not impair operation. The MultiJet® is also designed to work with biofuel. Thus, the energy-saving MultiJet® technology can be run on 100% renewable energy if desired.

... and frugal in every respect.



Simple installation and integration into any system

Owing to the large water capacity, the MultiJet® does not need a minimum amount of circulating water, nor minimum boiler, return or flue gas temperatures.

This makes the system straightforward to integrate hydraulically in any existing heating system – an installation advantage that makes the MultiJet® the preferred choice for renovations.

In addition, because of the low circulation volume and high temperature difference between the flow and return lines, there is no need for a primary pump. This saves energy.



Rapid return on investment

With the MultiJet®, you save up to 15% of the energy costs compared to a low-temperature boiler.

The modest additional investment for the jet technology and high-quality materials is quickly compensated by the lower operating costs.

Savings are even more pronounced when replacing an existing heating system. The MultiJet® reduces fuel costs by up to

- 20% compared to a 20-year-old heating system
- 30% compared to a 40-year-old heating system (or up to 40% when combined with a solar installation)



Secure investment

The MultiJet® is designed for long service life throughout. This is particularly apparent in the details: all components that come into contact with flue gases are made from high-alloy stainless steel and durable plastic.

This guarantees reliable protection against corrosion and helps maintain the value of your investment.

Ideal for renovations.

With the MultiJet®, changing to a modern, efficient condensing oil heating system is easy and financially attractive: it takes up minimal space, is easy to fit and integration into the existing system is straightforward. As it is suitable for all grades of heating oil, there is no need to empty the tank, with the associated costs. It is usually only the boiler that needs to be exchanged.

Even upgrading the chimney becomes an inexpensive, effortless affair with the MultiJet®. This is ensured by the special, durable and easy-to-install plastic flue system that can be employed because of the low flue gas temperatures.

Advantages at a glance

- Low consumption and minimum emissions
- Straightforward integration into existing systems
- Low space requirements
- Easy installation
- Suitable for all grades of kerosene heating oil
- No tank emptying required
- Room-sealed operation possible
- Straightforward chimney upgrade with special flue system



Hoval condensing oil boilers and up to 70% renewable energy. Solutions for the energy transition laws.

National laws within Europe stipulate that a **large percentage of the energy** used for heat generation must come from **renewable sources**. With the Hoval UltraOil® or MultiJet®, you can ensure compliance with these legal requirements whilst also enjoying the benefits of oil condensing technology. Bivalent systems from Hoval are the solution. For single-family homes and multi-dwellings, the Hoval condensing boilers can easily be combined with a solar energy

For low to medium power outputs (10–70 kW)

Condensing oil boiler and thermal solar energy system

- Up to approx. 70 kW
- Percentage of renewable energy up to 30% annually
- TopTronic® E system controller
- ErP label in the system up to A++
- Rapid and efficient amortisation

Renewable energy **30%**



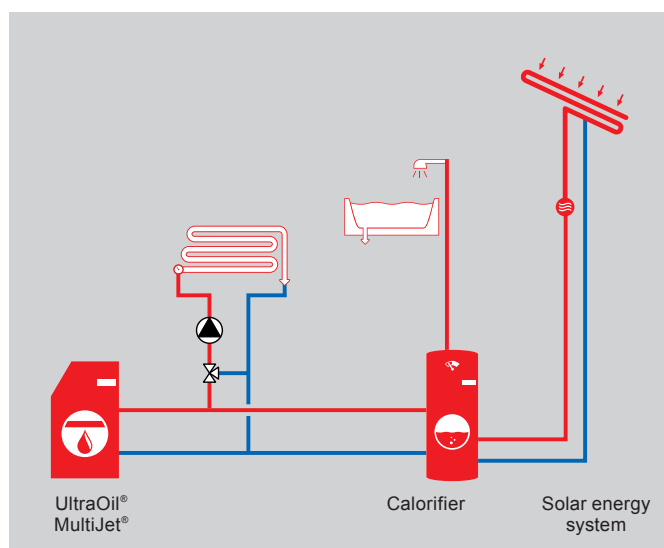
UltraOil® / MultiJet® condensing oil boiler



UltraSol solar thermal collector



Solar calorifier



UltraOil® with heat pump

- Up to approx. 70 kW
- Percentage of renewable energy up to 70% annually
- UltraOil® or MultiJet® serves as buffer storage tank
- TopTronic® E system controller
- ErP label in the system up to A++

Renewable energy **70%**



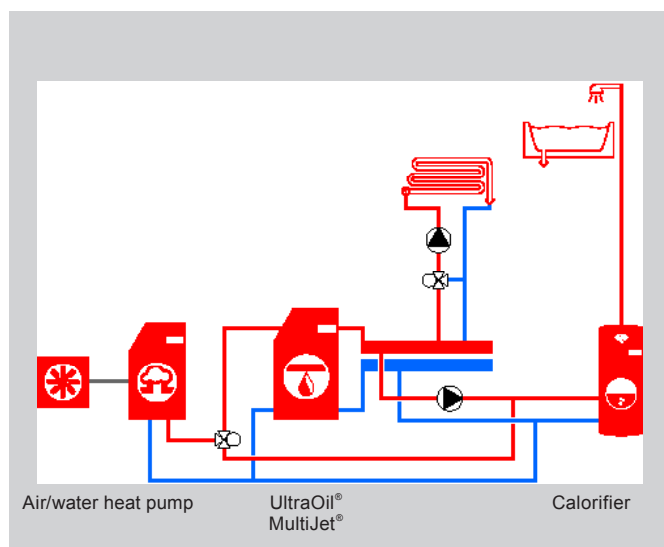
UltraOil® / MultiJet® condensing oil boiler



Belaria S air/water heat pump



Calorifier





system or an air heat pump. For larger buildings, combinations with wood pellet boilers or CHP units are virtually the only way to achieve the required percentage of renewable energy. Hoval provides complete systems from a single source – perfectly coordinated and controlled centrally with the TopTronic® E system controller.

The best option for higher power outputs (100–1000 kW)

UltraOil® with wood pellet boiler

- Up to approx. 1000 kW
- Percentage of renewable energy up to 70% annually
- Precise power gradations due to flexible cascading
- Not affected by price fluctuations on the oil or wood pellet market
- Increased supply certainty
- TopTronic® E system controller

Renewable energy 70%



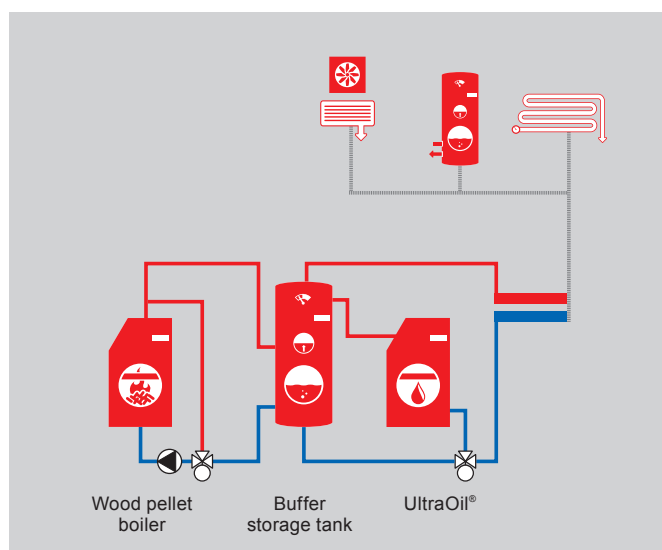
UltraOil®
condensing oil boiler



BioLyt®
wood pellet boiler



Buffer storage tank



UltraOil® with CHP unit

- Up to approx. 1000 kW
- Energy percentage from cogeneration system up to 70% annually
- TopTronic® E system controller

Energy from cogeneration system 70%



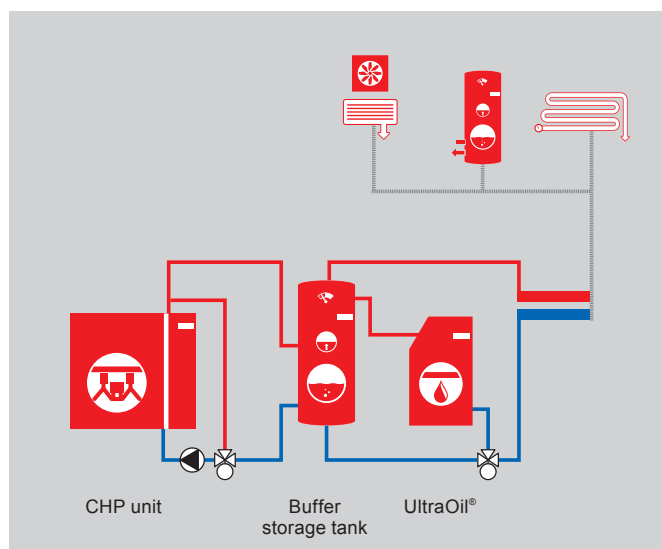
UltraOil®
condensing oil boiler



PowerBloc
CHP unit



Buffer storage tank



Solutions you can rely on.

Hoval

Responsibility for energy and environment.

The Hoval brand is internationally recognised as one of the leading suppliers of indoor climate control solutions. Around 70 years of experience have given us the necessary capabilities and motivation to continuously develop exceptional solutions and technically superior equipment.

Maximising energy efficiency and thus protecting the environment are both our conviction and our incentive. Hoval has established itself as an expert provider of intelligent heating and climate control systems that are exported to over 50 countries worldwide.



Hoval indoor climate systems

Indoor climate systems ensure top air quality and economical usability. Hoval has been installing decentralised systems for many years. The key to its work is using combinations of multiple air conditioning units (even those of different types) that can be controlled individually, but also together as a single system. This enables Hoval to respond flexibly to a wide range of requirements for heating, cooling and ventilation.



Design support from experts.

Take advantage of the expertise of our experienced specialists. We will be happy to support you throughout all project phases when designing your system.

Working in close cooperation with you and taking into account all the specifications of the energy supplier, we develop the most efficient and cost-effective solution for you.



Hoval service expertise.

Hoval systems are professionally commissioned by specially trained and experienced Hoval service technicians, ensuring that the systems will operate perfectly from day one. Maintenance and troubleshooting are performed on-site by an expert customer service team.

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