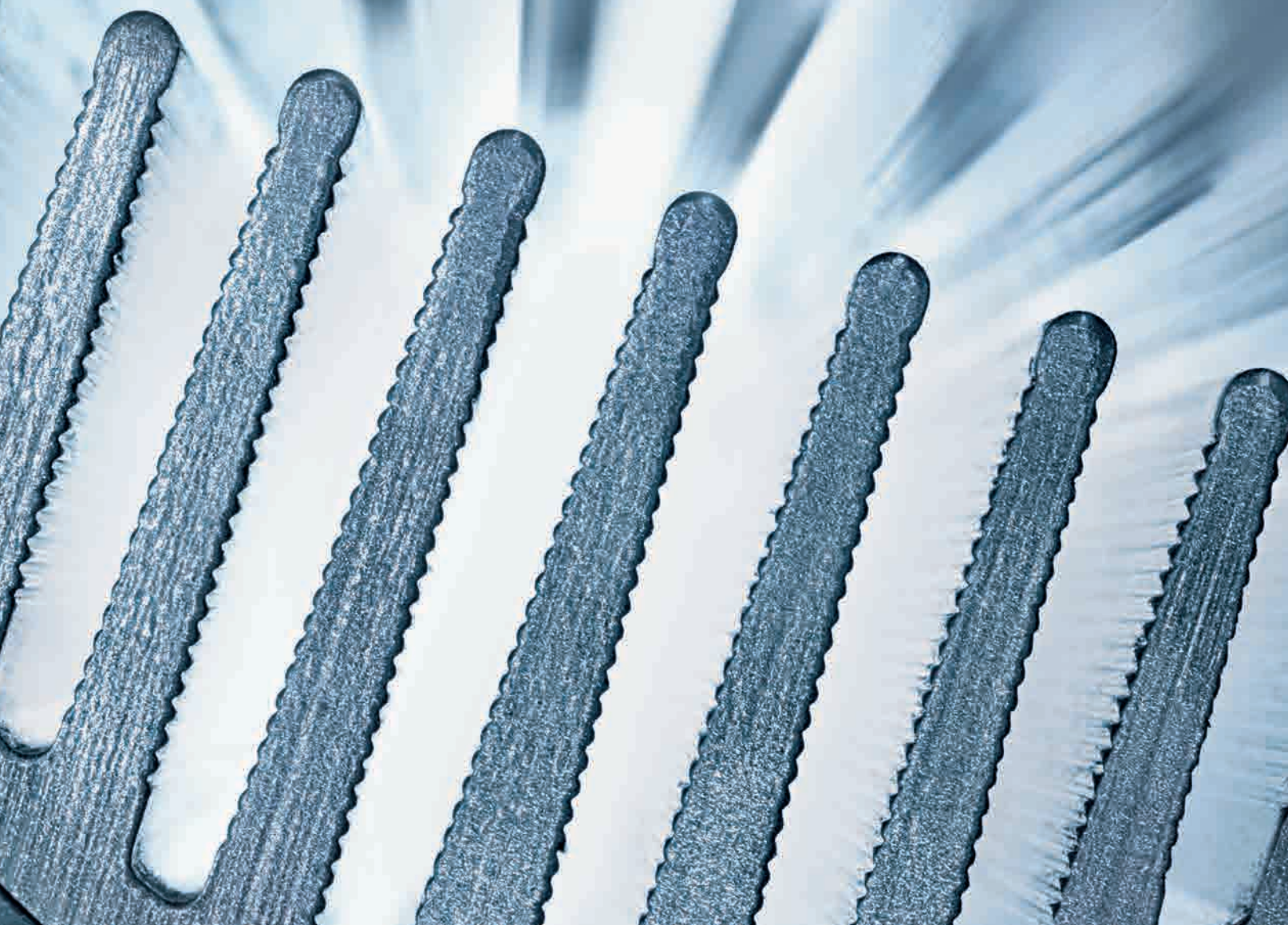


UltraOil®
Condensing Oil Boiler

Hoval



Output range 30 to 200 kW



Why choose UltraOil®?

The UltraOil® condensing boiler featuring our patented aluFer® heat exchanger and two-stage burner delivers market-leading efficiency and cost-effective heating performance. Our wide range of boilers will suit almost any customer's space heating requirements.

Economical



Patented aluFer® heat exchanger

- **Low heating costs** due to the latest condensing boiler design with aluFer® heat exchanger
- **Improved electrical consumption** due to large water capacity
- **Higher energy yield** with two-stage burner technology

Ecological



Low emissions

- **Minimum sulphur emissions** due to kerosene heating oil
- **Low CO₂ emissions** due to minimal fuel consumption
- **Clean and economical** due to fewer burner start-ups

Easy to use



Simple maintenance

- **Low maintenance** due to self-cleaning effect
- **User-friendly** controls with TopTronic®T system
- **Convenient remote maintenance** using TopTronic® online

Sophisticated



Versatile operation

- **Space-saving** due to compact design
- **Time-saving installation** due to flexible connection options
- **Simple integration** into existing systems or new builds

The complete UltraOil® range extends from 50 to 200 kW, offering numerous innovative construction details that make it the perfect choice for upgrades and new installations.

At Hoval we have the perfect system for almost any requirement.

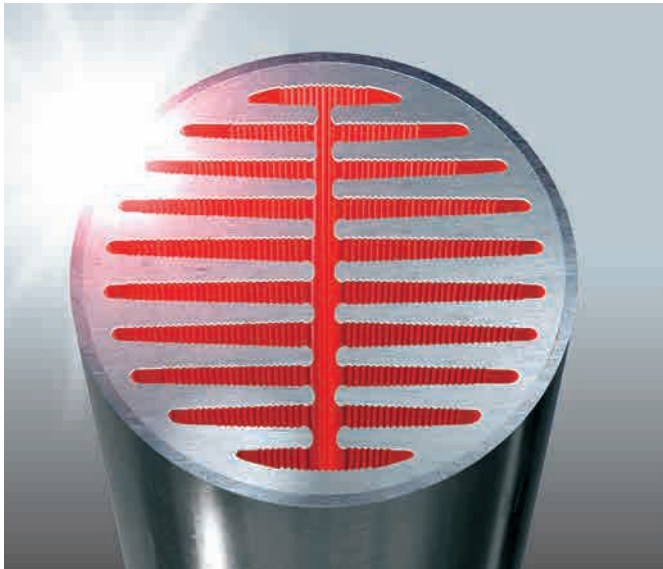


UltraOil® (50-80)
Innovative heating boiler for small and medium sized commercial applications

UltraOil® (110-200)
Highly efficient design for commercial and industrial applications

UltraOil®

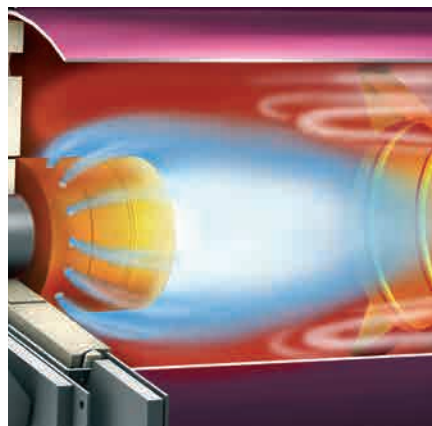
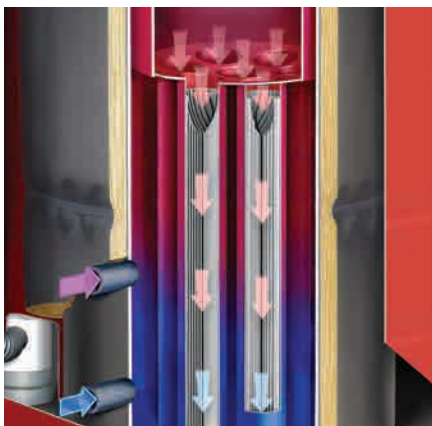
Featuring our patented aluFer® heat exchanger



Hoval aluFer® technology

The internationally patented aluFer® tube is a Hoval innovation in advanced heat transfer technology. It is constructed from an inner aluminium finned surface, heat shrunk within an outer stainless steel tube. The exceptional efficiency of the heat transfer is attributed to the following factors:

- High heat conductivity of aluminium being ten times greater than that of steel
- A ten times larger heat exchange surface due to the internal finned surface of the aluminium tube
- Optimised turbulence and heat exchange efficiency created by the multiple flow channels on the inner surface of the tube



Enhanced condensation design

The UltraOil® condensing design allows the flue gases and the steam they contain to be cooled by the heat exchanger in the boiler. The latent heat in the flue is transferred to the incoming cold water, thus increasing the efficiency of the boiler.



Clean and fuel-saving combustion

UltraOil® operates with a two-stage burner that reduces the number of burner starts, thereby lowering emissions.

The two-stage burner adjusts the power output to actual heating requirements. This significantly enhances its performance while saving energy and costs.



Kerosene heating oil

UltraOil® is specifically designed to run on kerosene heating oil.

The low sulphur-content of this oil is equivalent to that of natural gas, resulting in fewer deposits in the heat exchanger, consistently high efficiency and keeping maintenance costs to a minimum.



Easy to integrate

The UltraOil® has no minimum water flow rate, minimum return temperature or minimum boiler temperature and so is easy to integrate in any heating system, especially when replacing existing boilers.

In addition, because of the low circulation volume and high temperature difference between the flow and return lines, there is often no need for a boiler circulating pump, thereby saving electricity.



Space-saving design

The UltraOil® 50-80 can be positioned directly next to the wall due to its flexible lateral connections.



Double or Multiple boilers

If a high output is required, the UltraOil® can be used in a double or multiple boiler configuration.

The TopTronic®T regulator allows up to five boilers to be centrally controlled in a cascade.



Maintenance-friendly design

All UltraOil® components are readily accessible, easy to clean and can quickly be replaced at low cost in the unlikely event of a malfunction.

UltraOil® (50 - 80)

Innovative heating boiler for small and medium sized commercial applications



To simplify burner monitoring and maintenance, the entire burner carrier can be conveniently pivoted out of the UltraOil® (50-80) unit

Heating flow

can be flexibly connected on the left or right as required. The boiler can be positioned against the wall

Concentric exhaust connection

enables room-sealed operation and ensures a constant supply of fresh external air. This ensures consistently good combustion

Separate high and low temperature returns

create optimal conditions for condensation, thereby increasing energy recovery from the exhaust gases. The return line can be connected on the left or right as needed



Sound absorbing hood

insulation protects against noise emissions and radiation heat losses

TopTronic®T controller

automatically adjusts operation to suit demand and provides convenient control of the system

Two-stage low NOx oil burner

adjusts output to suit demand, reduces the frequency of starts and stops ensuring clean, low-emission and energy-saving combustion

Housing and design

space-saving design due to vertical arrangement of boiler

aluFer® heat exchanger

exclusive Hoval patent for maximum heat transmission and energy yield

Condensate drip tray

for safe collection and draining of condensate

Highly effective heat insulation

provides protection against radiation heat loss

Technical data		(50)	(80)
UltraOil®			
Heat output range at 40/30 °C	kW	30.0 – 50.0	52.0 – 80.0
Heat output range at 80/60 °C	kW	28.0 – 48.0	48.0 – 77.0
Minimum boiler operating temperature	°C	No lower limit	
Boiler efficiency at partial load of 30%* (as per EN 303)	% net	104.7/98.8	104.2 /98.3
Boiler water capacity	litres	115	135
Boiler weight (dry)	kg	276	360
Dimensions W / H / D	mm	675/1715/990	820/1948/1367

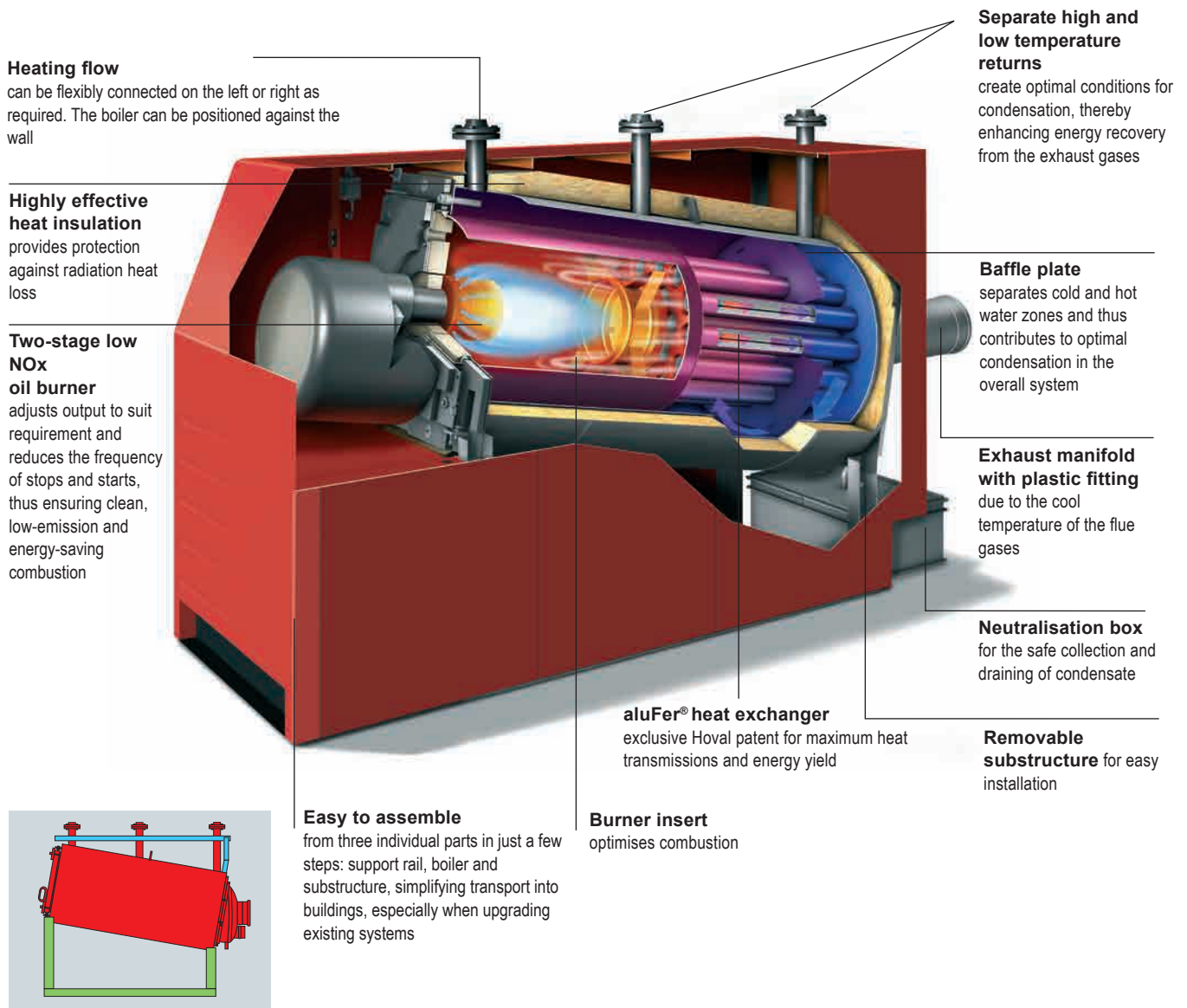
* Refers to lower/upper calorific value with 27°C return

For detailed technical information please refer to separate brochure

Subject to modification

UltraOil® (110 - 200)

Perfect for upgrades and large commercial applications



Technical data		(110)	(130)	(160)	(200)
UltraOil®					
Heat output range at 40/30 °C	kW	80.0 – 110.0	95.0 – 130.0	116.0 – 160.0	140.0 – 200.0
Heat output range at 80/60 °C	kW	76.0 – 105.0	90.0 – 124.0	111.0 – 152.0	133.0 – 190.0
Minimum boiler operating temperature	°C	No lower limit			
Boiler efficiency at partial load of 30%* (as per EN 303)	% net	105.0/99.1	104.8/98.9	104.5/98.6	104.0/98.1
Boiler water content	litres	340	340	340	360
Boiler weight (dry)	kg	420	420	420	450
Dimensions W / H / D	mm	1050/1492/2353			1050/1492/2545

* Refers to lower/upper calorific value with 27°C return
For detailed technical information please refer to separate brochure

Subject to modification



Intelligent TopTronic® control and Hoval system solutions: a professional integrated approach



Room control – an added bonus

One degree warmer. Two degrees cooler. With this control you can set the system to economy mode or switch it off. This practical control unit not only enhances comfort, but also makes it easy to regulate the temperature to the nearest degree, without leaving the room.



Remote access via TopTronic® online

The TopTronic® online feature allows you to control and optimise your heating system remotely. The user-friendly interface is accessible from either your PC or Smartphone.

Additionally, previously programmed phone numbers can receive fault notifications via SMS on a mobile phone, so that you can always be in touch with your system.



Sophisticated management for your heating system

The TopTronic® control is the brain of every Hoval system. Innovative microprocessor technology ensures smooth and continuously monitored operation.

The LCD display provides information on operating data, while a single rotary pushbutton and seven keys are used to activate heating programs and settings. If manual intervention is necessary, the required program can be found in seconds in the self-explanatory user guide.



Flexibility to suit any need

With the move towards renewable energy, an ever-evolving range of technologies is being integrated into building heating systems. TopTronic® can control systems with up to five heat generators and ten mixing circuits. Therefore, a wide range of energy sources such as solar and biomass can be utilised together, delivering a well-coordinated system to meet your heating demands.

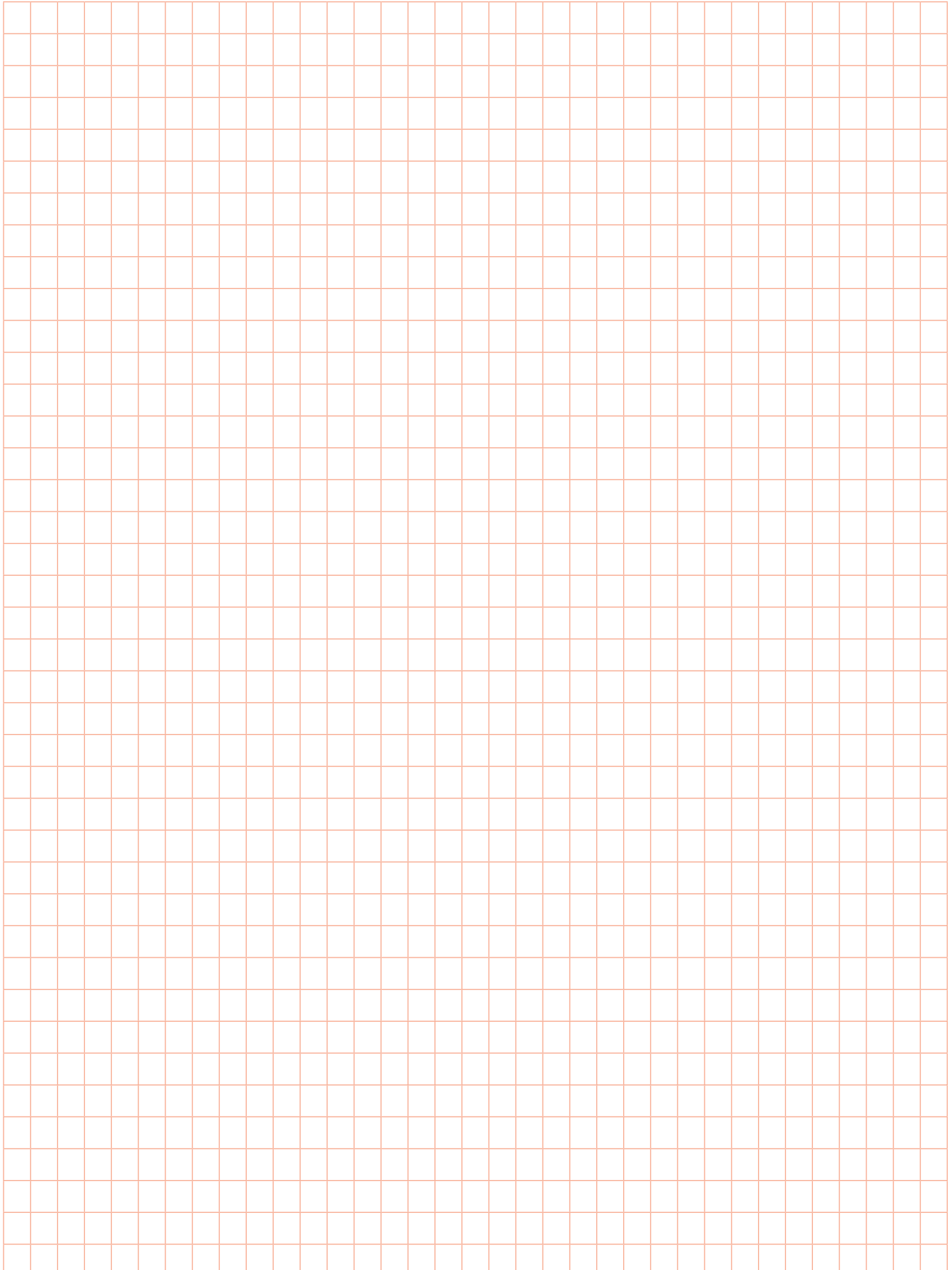


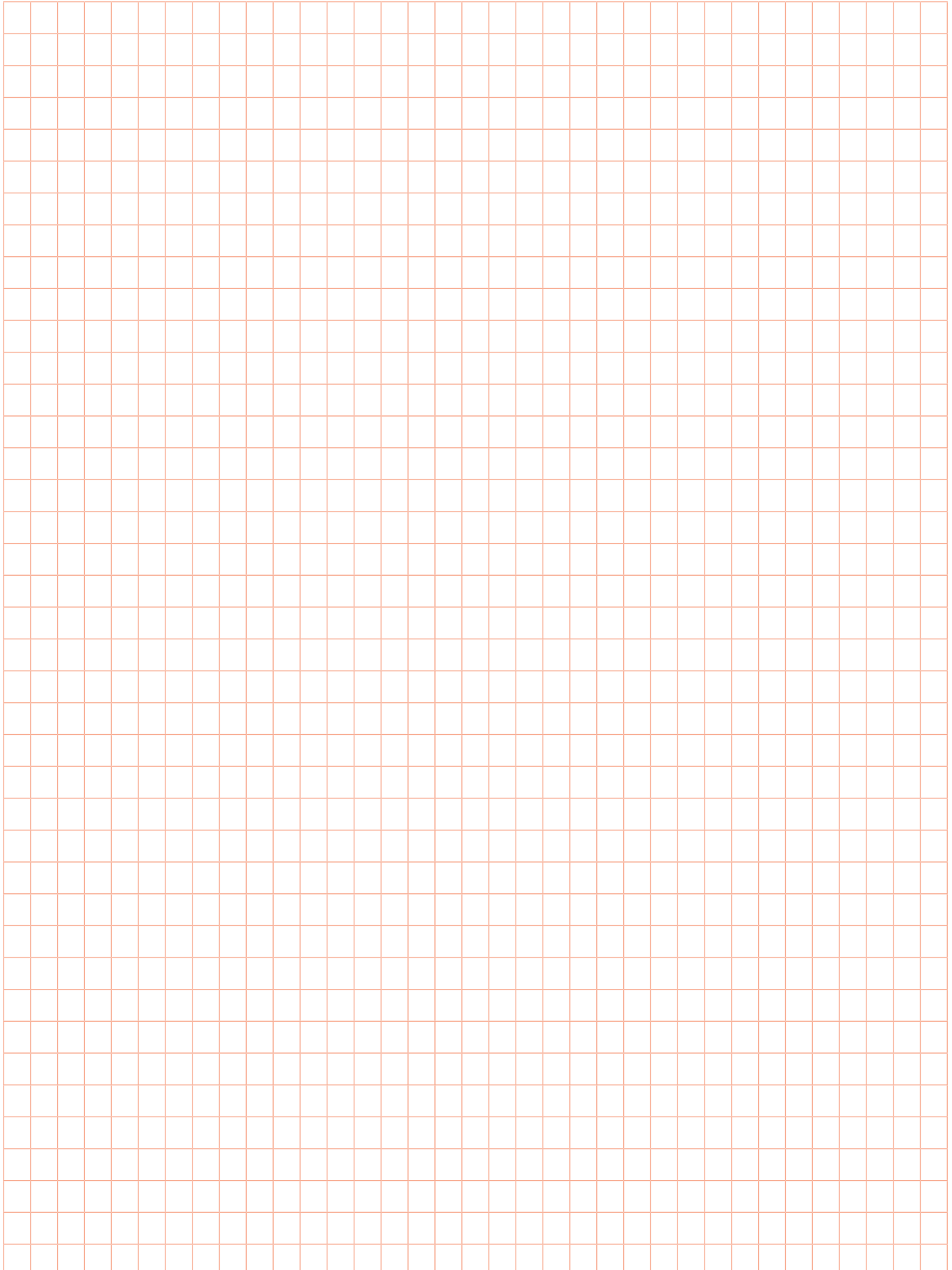
Domestic hot water

Hoval offers a wide variety of domestic hot water storage units ranging from 160 to 10,000 litres.

Our extensive product range can provide solutions to meet most building conditions producing hot water as economically and ecologically as possible.

Notes



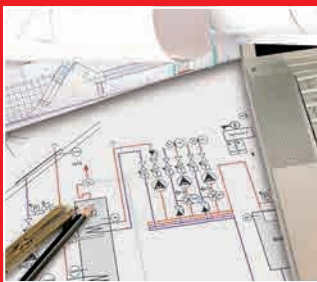


An expert partner



One-stop shopping

With us you can easily incorporate gas, oil, heat pump, solar, CHP, or biomass energy solutions into your heating system.



Technical advice

We are happy to assist you and your planning partners in developing intelligent systems, allowing you to take advantage of our expertise and the experience of our specialists.



After sales

For specialist commissioning and maintenance of your Hoval equipment, contact our service and spares department.

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Responsibility for energy and environment

Hoval follows a policy of continued improvement and reserves the right to change specifications without notice.

Hoval