

Ultra slim, ultra lightweight, ultra efficient. A range of collectors for all installation methods.



Front page: aluFrame – the new diecast aluminium frame for the UltraSol collector range offers maximum strength whilst still boasting an exceptionally slimline, light and shapely design

The new UltraSol product range is a Hoval innovation that is designed to meet today's requirements for top quality, maximum efficiency and easy installation. UltraSol offers two types of collectors (UltraSol and UltraSol eco), each of which is available in both a horizontal and a vertical design. They have been designed to have an exceptionally low construction height and weigh very little. Thanks to the installation system and plug-and-play hydraulic kits, all the collectors are suitable for any method of installation – whether they're being placed in a roof, on a roof, incorporated into a flat roof, or simply acting as a free-standing structure.

Marking a first for the industry, these products also come with the Hoval aluFrame, an ultra-lightweight diecast aluminium frame whose seamless design keeps the collectors firmly in place and enhances their resilience. To increase its efficiency, the Hoval UltraSol collector features a special antireflective coating applied to the solar glass, which blends discreetly into the roof.







Strong Systems Hoval system controller TopTronic®E comfort ventilation A particularly strong system is the solar thermal collector UltraSol, together with other components from Hoval, and centrally controlled by the TopTronic®E. **Hoval condensing** Hoval **Hoval buffer** Hoval fresh water Hoval calorifiers storage tanks modules gas- and oil boilers biomass boilers heat pumps

Solar thermal collector. UltraSol.



The UltraSol collector offers flexible design and installation options.

UltraSol. Advantages at a glance.

The solar energy system uses free, sustainable solar energy to heat water and even the building itself, depending on the season – an excellent reason to choose an economical, environmentally friendly system like this one. The Hoval UltraSol solar collectors offer a flexible solution, as each of the two collector types can be installed both horizontally and vertically. Their low construction height, plus the option of an extra-slim diecast aluminium frame and the UltraSol antireflective solar glass, combine to form a remarkably sleek yet discreet look.

Sophisticated



Flexible design and installation

- Low height and high stability due to a sophisticated design with an exceptionally slim diecast aluminium frame
- All installation methods possible with one range of collectors
- Minimal glare from the sun thanks to antireflective solar glass

Ecological



Using clean solar energy efficiently

- Free from CO₂ and emissions
- up to 80% of the energy for water heating
- up to 50% of the energy for heating system

Easy to use



One installation system for all collectors

- Quick and easy installation due to an easy-to-use connection system for the entire UltraSol range
- Simple hydraulic integration due to a meander absorber and 4 connections
- Convenient operation due to a single TopTronic[®] E control for heating, hot water and solar power
- Perfect integration into the heating system using Hoval system solutions – everything from a single source

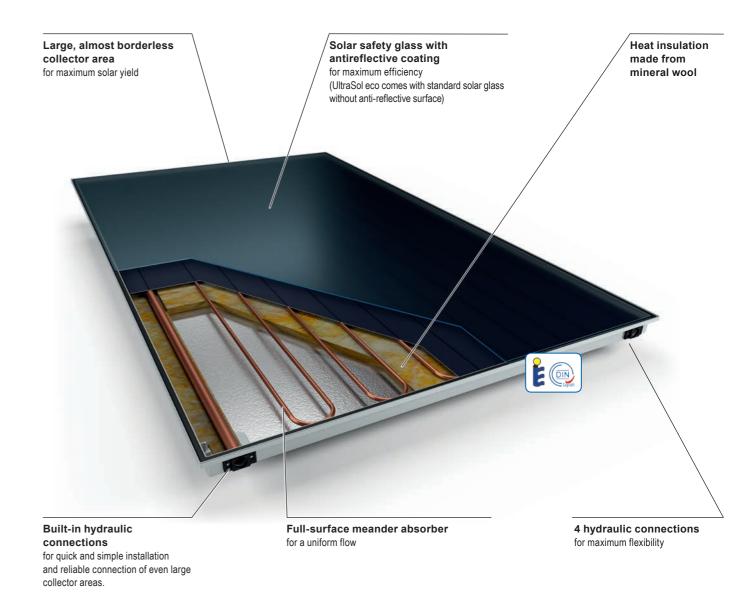
Economical



High solar yield saves on heating costs

- High solar yield due to cutting-edge technology
- Savings made on energy consumption costs through the use of free solar energy.
- Further savings made on electricity costs through the use of solar heat for washing machines and dishwashers
- Savings made due to regional subsidy programmes

UltraSol. Shapely, flexible, easy to install.



		UltraSol	UltraSol eco
		Nr. 011-752227 F	Nr. 011-752228 F
		0.851	0.786
	m²	2.	52
	m²	2.3	36
vertical design horizontal design	mm	1230/2050/54 2050/1230/54	
	•	m ² vertical design	Nr. 011-752227 F 0.851 m² 2.3 vertical design mm 1230/2

Designs				
vertical installation		horizontal installation		
H	Н	W		

Subject to modification

UltraSol. Sophisticated design for a sleek look, easy installation and a high solar yield.







The Hoval UltraSol collector range comprises two collector types, each of which is available in a vertical and a horizontal design. This flexibility, coupled with the absorber surface gained from the ultra-slim, diecast aluminium frame, allow for optimum use of the roof space. The range accommodates every type of installation (in-roof, on-roof, flat roof and free-standing) thanks to coordinated installation systems and hydraulic kits.



Unique, slim, diecast aluminium frame

The specially-made diecast aluminium frame, aluFrame, is the largest in Europe to be produced using this manufacturing technique. Its benefits come in the form of a seamless frame, which offers a greater level of stability than types with joints. This is ideal not only when transporting the frame, but also when handling it during the installation process. Once on the roof, the slim side profile of the frame makes the collector area appear almost as if it had no borders, creating a harmonious visual effect.



Meander absorber with 4 connections

The full-surface meander absorber in the UltraSol system creates a uniform flow and excellent heat transmission from the solar energy to the solar fluid.

The 4 UltraSol connections enable simple hydraulic integration whilst offering a high level of flexibility: the individual collectors can be connected in parallel or in series, as required. This enables the hydraulic resistance to be adjusted precisely to the needs of the application, making the UltraSol ideal even for large systems. The practical, efficient draining function via the four connections is yet another advantage.



Coated antireflective solar glass

Selecting the coating for the solar glass not only meant considering its visual effect and ensuring limited glare; above all else, it was also necessary to select a coating that would maximise solar yield. The antireflective coating on the UltraSol collector reflects less incidental sunlight, allowing it to use and store more heat.



A flexible installation system for all collectors

The sophisticated fastening system for both types of collectors means that installation takes no time at all, whether it involves in-roof, on-roof, flat roof or free-standing methods.

The matching components form part of the installation kit for each variant. This means that each kit contains the fastening system required for installation, plus a hydraulic kit. For in-roof installations, the cladding can either be supplied by Hoval or provided by the customer, depending on requirements.



A design to suit your needs

If requested, Hoval is able to help design the entire solar energy system. This includes the quantity and orientation of the collectors, the sets of solar fittings, the buffer storage tanks, the additional heat generators for months when it is less sunny, and the control unit

As a complete provider, Hoval ensures that all system components are perfectly coordinated with one another, which not only makes them easier to use, but also enhances the system's efficiency.

UltraSol – one for all. In-roof, on-roof and flat roof installation.



Today's solar collectors can be interesting architectural features and add visual appeal to the look of a building. They can be found not only on the roofs of houses, but also on porch roofs, garage roofs, in gardens and on patios. The two collector types in the UltraSol range can accommodate all these options. No matter the space required or how the system needs to be positioned, flexible and rapid installation is guaranteed thanks to the standardised Hoval installation concept.



In-roof installation

For in-roof installation, the UltraSol collectors are integrated into the roof of the house and blend seamlessly into the overall appearance of the building. The system is particularly well suited to new buildings or renovations involving work on the



Sheet metal flashing for in-roof



On-roof installation

On-roof installation is ideal for retrofitting the collectors as no major interventions in the roof structure or roof covering are required. The UltraSol mounting brackets can be adjusted in a number of ways and are fixed directly to the roof framework.



UltraSol on-roof installation: The special mounting bracket can be adjusted in a number of ways and is



Flat roof installation

Flat roof installation is carried out using concrete bases. This method is suitable for use in cases where the pitch of the roof is extremely low. Depending on the application (hot water or heating), installation angles from 30 to 60° may be required.

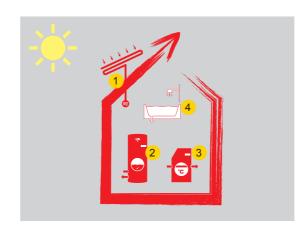


Installation with a concrete base

UltraSol.

From water heating in single family homes right through to industrial process heat.

The modular concept, flexible installation options and hydraulics make UltraSol the ideal solution for a vast range of different requirements. Whether it takes the form of a smaller water heating system in a single family home or a large-scale installation for industrial use, the UltraSol really is suitable for anything. Thanks to the quick and easy installation process, even large-scale systems are inexpensive to install.

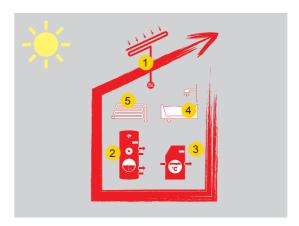


Solar water heating...

With a modern, solar compact system from Hoval, a bulk of the annual energy demand for hot water can be covered in a 4-person family

This type of compact system can be combined with all standard heating systems, and its simple installation and compact dimensions even make it ideal for renovation projects.

- 1) Solar collectors
- 2) Water heater with solar fittings
- 3) Additional heat generator
- 4) Hot water consumer

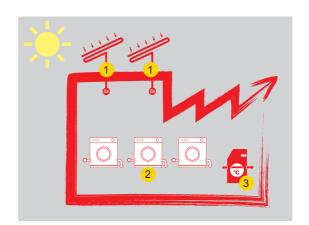


...and heating backup supplies.

An even more intriguing solution is a solar energy system that is used not only to produce hot water, but also to provide backup for oil, gas, biomass or heat pump heating systems.

In this way, between 20% and 35% of energy can be saved – and as much as 50% in low-energy houses.

- 1) Solar collector
- 2) Solar combination storage tank for water heating and heating backup supply
- 3) Additional heat generator
- 4) Hot water consumer
- 5) Radiator or underfloor heating



Solar process heat for industrial applications.

Solar collectors can even supply the required level of heat energy for industrial processes. Solar installations can offer significant energy savings, particularly in the case of processes in the lower temperature range between 40 and 60°C, such as washing, cleaning and drying.

- 1) Solar collectors
- 2) Process heat (e.g. washing, cleaning, drying)
- 3) Building heating system

Energy-saving compact solutions for single family homes.

Compact systems allow solar installations to be integrated very easily and inexpensively. The systems are available for both solar water heating and heating backup supplies.

Water heating systems:



System solution with the Hoval SolarCompact

The Hoval SolarCompact solar storage tank comes with a complete set of solar fittings already integrated and offers winning features like its space-saving design and simple installation concept.

The solar installation is easy to control in combination with a Hoval heat generator thanks to the TopTronic®E control.

Water heating and heating support systems:



System solution with the Hoval CombiSol combination storage tank

The CombiSol combination storage tank is a buffer storage tank with a set of solar fittings and integrated water heater. As is usual in dual storage tank systems, it ensures a constant and reliable supply of hot water.

The solar installation is easy to control in combination with a Hoval heat generator thanks to the TopTronic®E control.

Ensuring everything works in perfect harmony is the only way to create a solar energy system that offers maximum efficiency.

A modern solar energy system comprises a variety of components. Ensuring each individual component is of high quality, and that the entire system is installed professionally, is the key to creating an efficient system. And with Hoval, you can get all this from a single source.



Collectors

Whether they are integrated discreetly into the roof, create a design feature on the building envelope, or are mounted on flat roofs, the ready-to-install Hoval solar collectors offer flexible solutions for every situation. The cleverly designed installation kits ensure quick, easy and inexpensive assembly.





Control

The Hoval system controller TopTronic® E with solar module ensures the solar installation and additional heating system work in perfect harmony.





Solar water heater and combination storage tank

These allow solar installations to be integrated very easily and inexpensively. They are available for solar water heating and as a combination storage tank for heating and hot water.







Solar fitting sets and charging modules

These ensure that heat energy is transferred from the solar circuit to the storage circuit as efficiently as possible.

The water is stored in layers of different temperatures to accommodate the various temperature requirements of the heating and hot water system circuits, and this increases the efficiency of the system as a whole.



10 Hova

Solutions you can rely on.



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.

Hoval Group

Switzerland

Hoval AG 8706 Feldmeilen ZH www.hoval.ch

Austria

Hoval Gesellschaft m.b.H 4614 Marchtrenk www.hoval.at

Germany

Hoval GmbH 85609 Aschheim-Dornach www.hoval.de

United Kingdom

Hoval Ltd. Newark Notts. NG 24 1JN www.hoval.co.uk

Italy

Hoval s.r.l. 24050 Zanica (BG) www.hoval.it

France

Hoval SAS 67118 Geispolsheim www.hoval.fr

Denmark

Hoval a/s 8660 Skanderborg www.hoval.dk

Bulgaria

Hoval Corporation - Branch Bulgaria 1797 Sofia www.hoval.com

Croatia

Hoval d.o.o. 10 000 Zagreb www.hoval.hr

Czech Republic

Hoval spol. s r.o. 312 04 Plzeñ www.hoval.cz

Poland

Hoval Sp. z o.o. 62-002 Suchy Las www.hoval.pl

Romania

Hoval s.r.l. Voluntari 077190 www.hoval.ro

Slovakia

Hoval SK spol. s r.o. 04001 Košice www.hoval.sk

China

Hoval Ltd. 100016 Beijing P.R. China www.hoval.com.cn

Singapore

Hoval Corporation Singapore 187966 www.hoval.com





