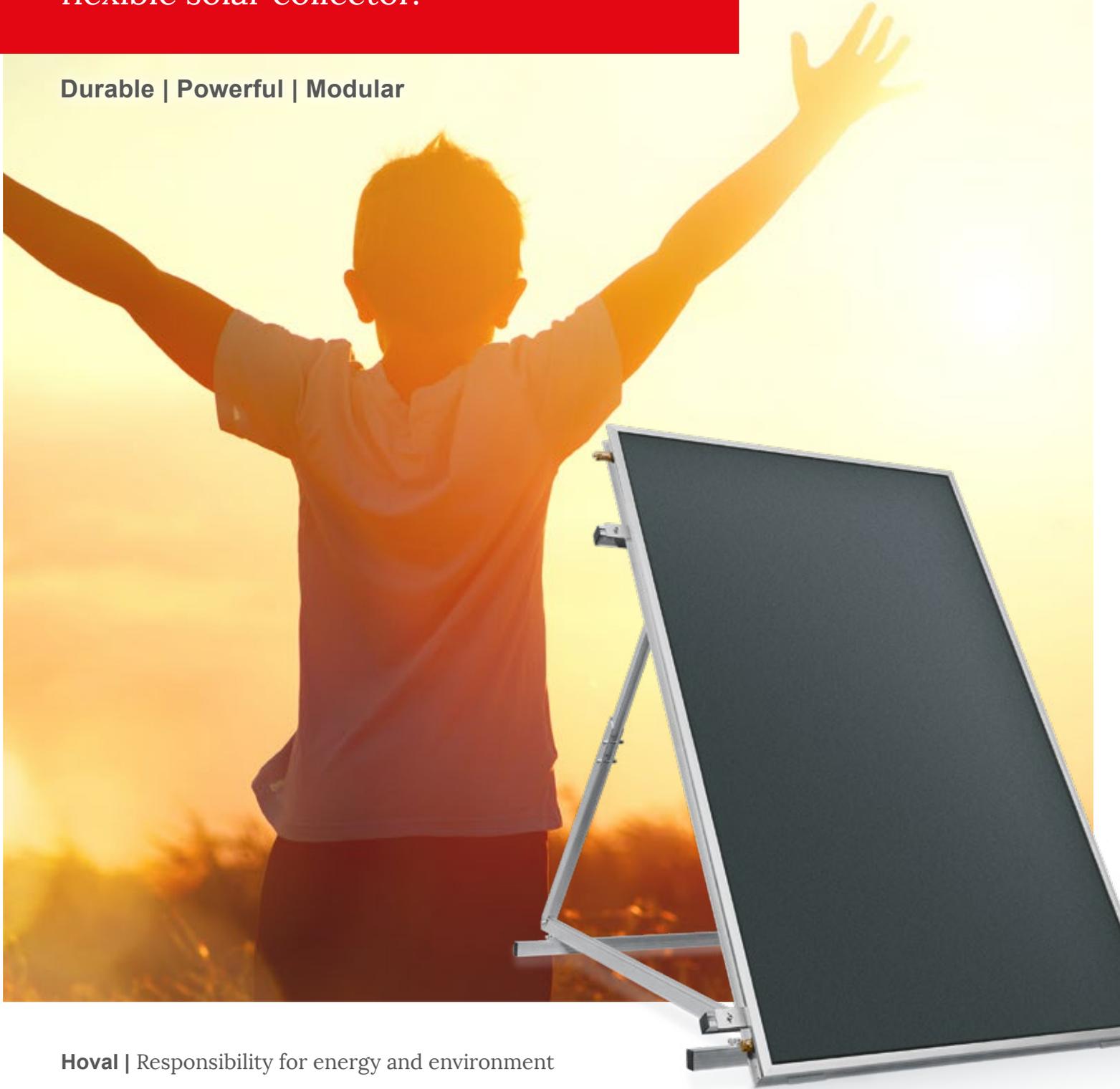


**Hoval**

## **Hoval UltraSol® 2**

Everything under control with the flexible solar collector.

**Durable | Powerful | Modular**

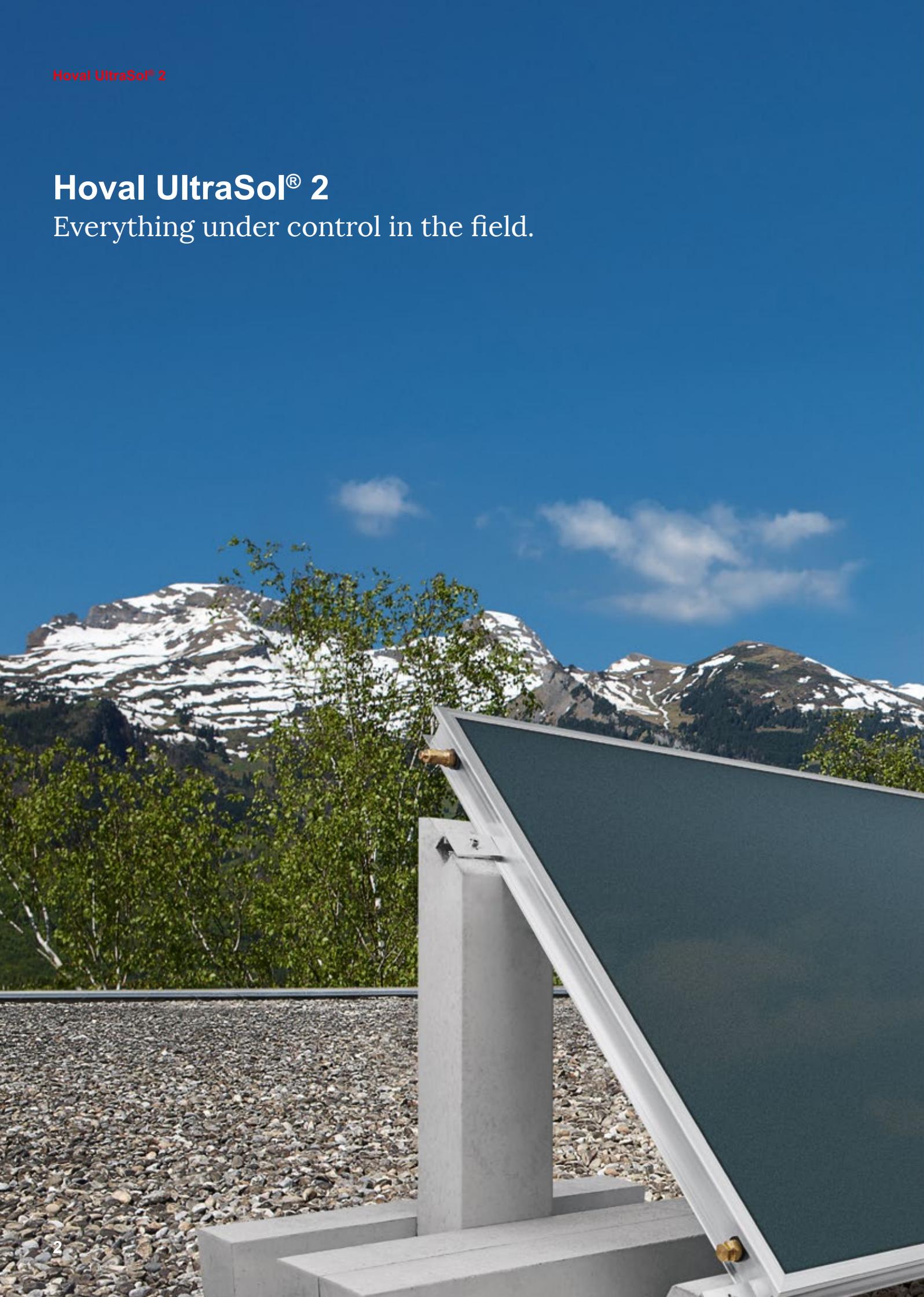


**Hoval** | Responsibility for energy and environment

Hoval UltraSol® 2

# Hoval UltraSol® 2

Everything under control in the field.



Hoval development engineers favour a hands-on approach!

Nowadays, many product functions are calculated and simulated on a PC. But of course, when it comes to checking the functionality of Hoval products and the way they are transported and installed, there is no substitute for in-depth, real-life testing. The Hoval engineers favour a hands-on approach – they incorporate their own experience into the product development process along with everything they learn through talking to experts.

An easily accessible flat roof is the ideal place to install the UltraSol® 2. Installing it on a steep roof in the height of summer, on the other hand, is much more of a challenge. It's important for our developers to carry out testing in these situations as well – with the right safety equipment, they are ready for any conditions. What are the collector and fitting accessories like to handle? Does everything fit together? This approach combines theory and practical experience to achieve the perfect result: a powerful, durable collector featuring innovative absorber technology. Discover the Hoval UltraSol® 2 for yourself – you won't be disappointed!



# Hoval UltraSol® 2

Flexible exterior, unique interior.

High-output flat plate collector for using solar power to heat water. You can choose which version of the UltraSol® 2 – vertical or horizontal – best suits your installation location and select the appropriate fitting accessories.

Range of applications: in-roof, on-roof, flat-roof or facade installation – for new buildings and renovations.

## Added value for you:

- **Four connections enable flexible installation.**

One collector, two versions – but numerous installation options due to its four connections, particularly for in-roof or on-roof installation.

- **Unique production ensures durability.**

The frame of the UltraSol® 2 is made from high-quality aluminium profiles and ensures a long service life and reliable operation.

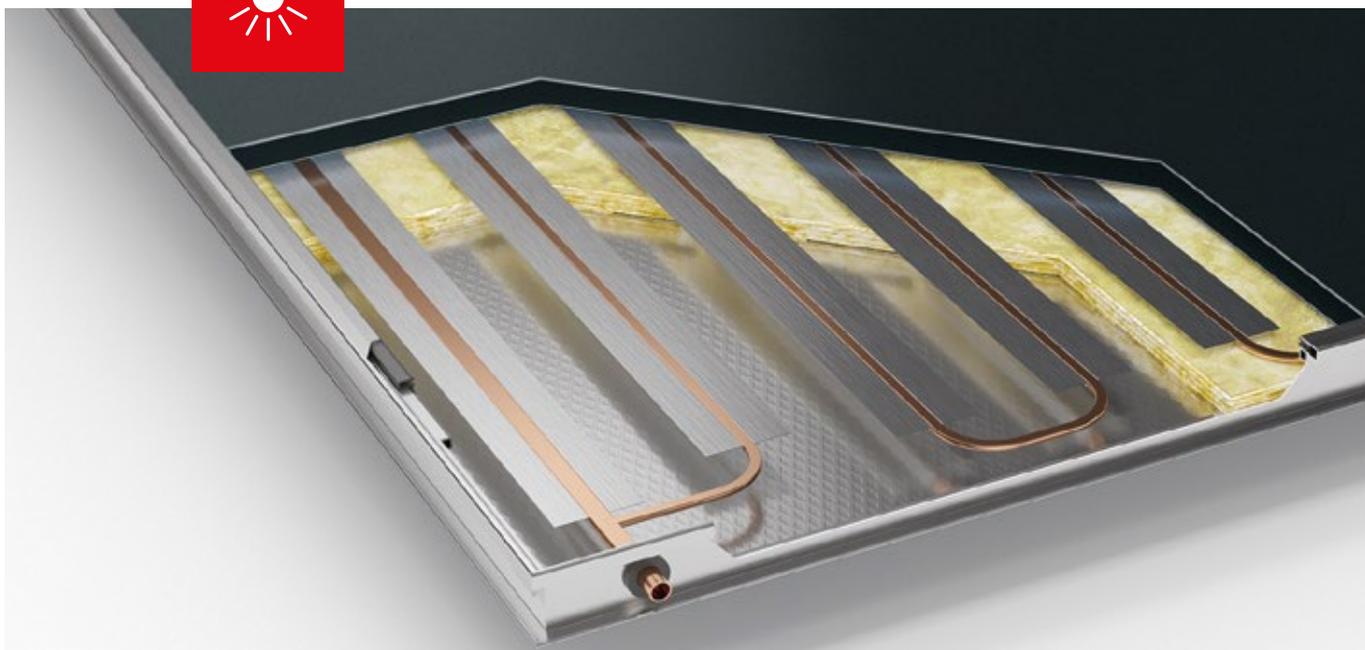
- **Powerful system ensures maximum solar yields.**

The solar heat taken in by the absorber is transmitted particularly evenly and efficiently by means of the patented WLT® (heat conduction technology) method.

- **Modular combination options in the heating system.**

Use free solar energy to save on heating costs. The UltraSol® 2 will help you to conserve resources and is the ideal complement to heating systems.





### **Four connections enable flexible installation.**

With its heat exchanger in the form of a collector pipe meander, every UltraSol® 2 collector has four connections. The two versions – vertical or horizontal – enable you to design the collector field to suit your requirements. Integrated in a slanted roof, elevated or mounted on a flat roof: the hydraulic integration of the collectors can be tailored to any situation. The material packages provide peace of mind when it comes to planning and installation and can be ordered in next to no time.

### **Unique production ensures durability.**

First-class materials and workmanship guarantee a long service life and consistent quality. Using the clinch method, dimensionally stable aluminium profiles are joined together with positive-locking connections to create the frame. This means no additional material, no welding and no soldering and results in better corrosion resistance – something which is also ensured by means of the WLT® method, which connects the coated aluminium absorber to the copper tube heat exchanger. The collectors are joined to each other with high-quality, metal-seal squeezing ring screw connections.

### **Powerful system ensures maximum solar yields.**

In the patented WLT® method, a special heat conduction plate connects the absorber to the heat exchanger using its full surface – not at just isolated points. The flow through the heat exchanger is optimised, and the solar heat is transmitted more efficiently and evenly. In this way, the UltraSol® 2 achieves maximum solar yields over the course of the year. What's more, the UltraSol® 2 cuts a fine figure – with its low frame height of 65 mm, it blends perfectly into the roof. Thanks to the WLT® method, the absorber is almost as smooth as a mirror and rounds off the collector's attractive appearance perfectly.

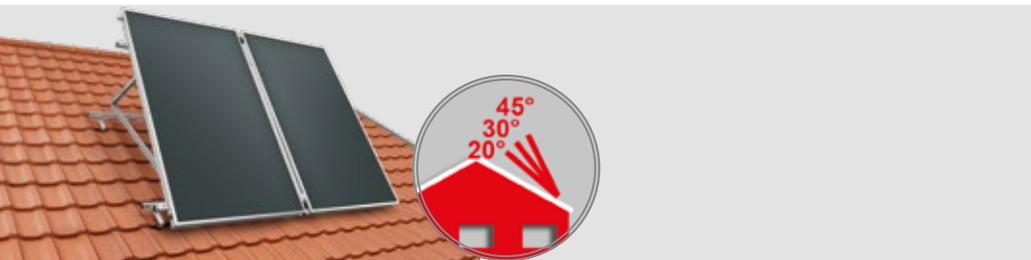
### **Modular combination options in the heating system.**

The UltraSol® 2 from Hoval is the ideal environmentally friendly complement to a heating system. It allows you to use free solar energy to save on heating costs and conserve resources. If the heating system is from Hoval as well, efficiency and uniform operation are guaranteed. The TopTronic® E system controller ensures that all components work together efficiently, while the overall system ensures that the energy is used in the best possible way.

# One collector – numerous installation options. The right set for any type of installation.

On the roof of the house, the porch or the garage, in the garden or on the patio: the Hoval UltraSol® 2 collector has the right solution for any location. No matter how much space is required or how the system needs to be positioned, flexible and rapid installation is guaranteed thanks to the standardised installation concept.

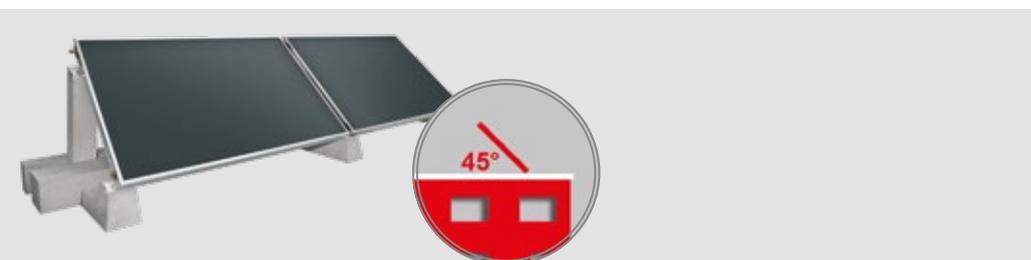
## ▼ On-roof (AD)



## ▼ In-roof (ID)

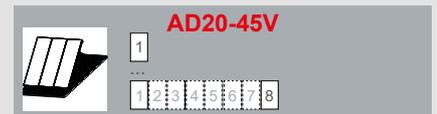
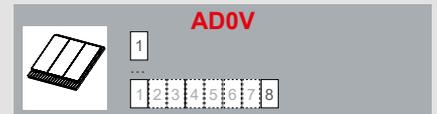


## ▼ Flat-roof (FD)



## The most important sets at a glance

Each set comprises:

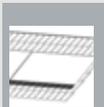


Fitting accessories  
next to each other (N)  
+  
Collector connection

 Horizontal (H)

**AD0H**  
 1  
...  
1 2 3 4 5 6

**AD20-45H**  
 1  
...  
1 2 3 4 5 6

**IDNH**  
 1  
...  
1 2 3 4 5 6

**FDBS45H**  
 1  
...  
1 2 3 4 5 6 7 8

**Detailed information and further accessories**  
can be found in the sales catalogue.



**Roof  
connection**

Tiled roof

Plain tiles

Slate/flat eternit

Tin roof

Included in  
installation set

Provided on site  
if required

**Collector  
connection sets**

Straight connection

90° connection

**Frost  
protection**

Ready-mixed

Concentrate

**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