

Solar Collector  
**SG23V / SG23H**



# SG23V / SG23H For in-roof and roof-mounted mounting

## Tecnical Data

SG23V SG23H	
Collector type	Roof-mounted collector
Gross surface area	2.25 m <sup>2</sup>
Absorber surface area	1.91 m <sup>2</sup>
Opening surface area	2.03 m <sup>2</sup>
H x W x D	2,108 x 1,069 x 93 mm   1,069 x 2,108 x 93 mm
Empty weight	36.3 kg   36.6 kg
Contents	1.44 l
Absorber coating	Highly-selective
Absorption quotient	95 %
Emission	5 %
Max. operating pressure	10 bar
Type of heating medium	Propylene glycol/water mixture
Absorber material	Aluminium 0.4 mm
Connections	4 X 1"
Collecting main	Cu 22 x 0.8 with screw pipe joint 1"
Register pipe	8 mm
Cover	3.2 mm toughened solar safety glass
Transmission	91 %
Glass seal	UV-resistant EPDM rubber seal
Collector assembly	Aluminium basin 0.8 mm
Mineral wool heat insulation	50 mm
Leaning angle min./max.	20° / 80°
Wind and snow tolerance	120 km/h / Tile roof: 460 kg/ Universal: 345 kg

## Mounting- Systems



Mounting at 45° angle, flexible positioning possible. Attached through the roof cladding using screws.



Universal and Tile roof 20°  
Bench screw and roof rack connection.



Universal and Tile roof 0°  
Mounting rails are attached through the roof cladding using screws or roof anchors.



Roofintegration

More options on request

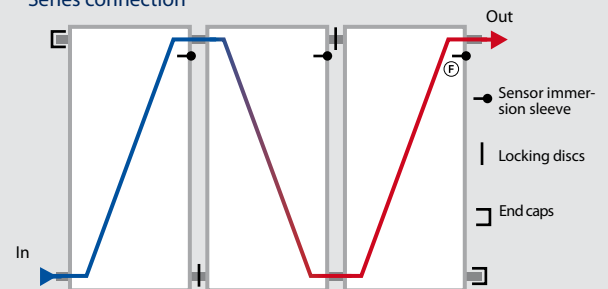
This collector has 4 connections. This makes it possible to connect any number of different combinations while reducing the need for piping to the extent permitted by the laws of hydraulics.

The collectors in this series consist of a deep-drawn aluminium basin, a laser-welded aluminium full surface absorber, a 50 mm thick mineral wool plate and a piece of highly translucent, hail-proof solar glass. The collectors are available in both vertical and horizontal formats.

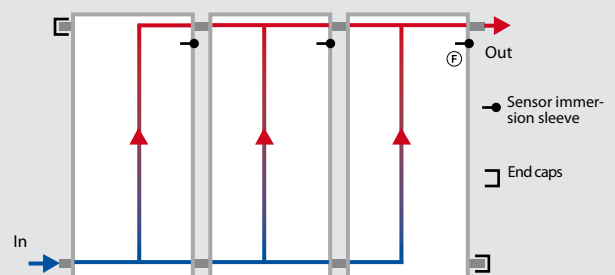
### Absorber:

These aluminium full surface absorbers, with highly-selective coating, copper register and collecting main, are hard soldered and attached to the absorber plate using laser welding technology.

### Series connection



### Parallel connection



Can be expanded to include up to 12 collectors. For more than 6 collectors, an expansion pipe is required! Possible with any direction of flow (for parallel connections, collectors should flow down to up only = return bottom/flow top). Use the last sensor immersion sleeve.

