



Wagner & Co

SECUterm - Thermosiphon-System

Solar hot water production -
safe and reliable

Advantages at a Glance

Top-class solar collector

- Highly selective, vacuum coated copper absorber
- Highly transparent solar safety glass
- 40 mm back and seamless side insulation
- Durability ensured by high quality material and production

Integrated return pipe inside the collector

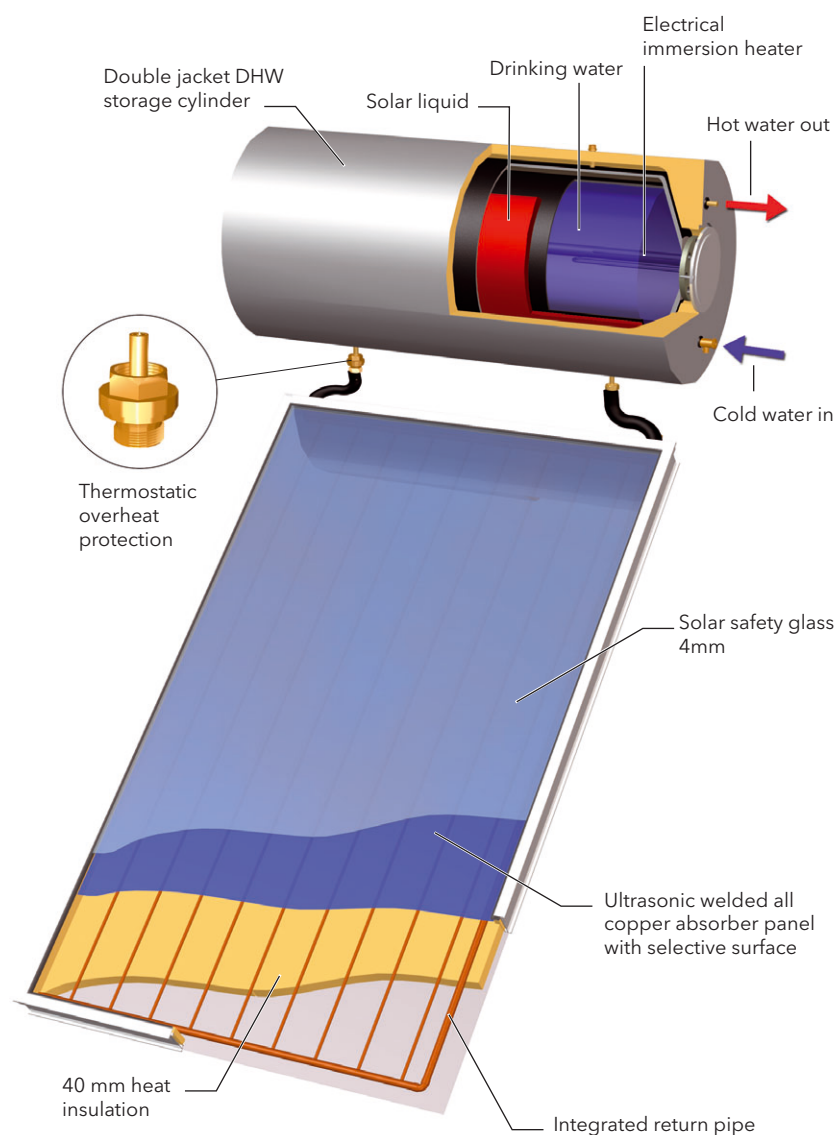
- Easy and fast installation
- Reduced heat loss
- Compact and appealing design
- Strong and durable construction

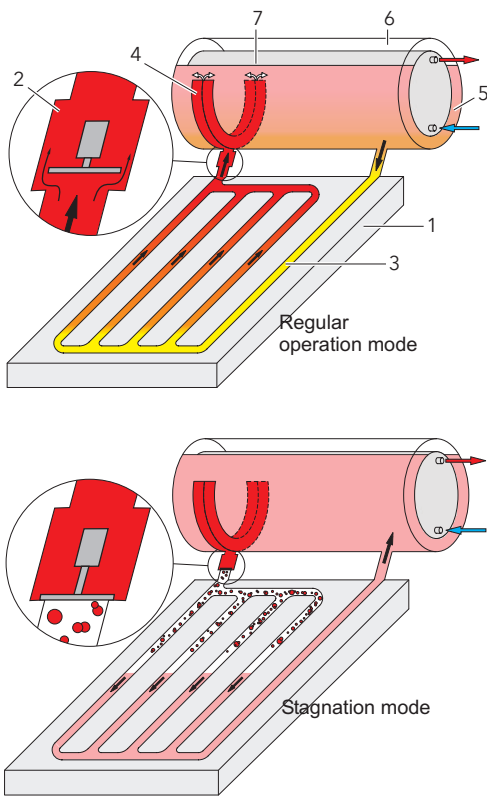
Thermostatic overheat protection

- Temperature limited to max. 80 °C inside storage cylinder
- Low maintenance at high life time
- No scaling of thermostatic valves
- No system failure resulting from loss of solar fluid
- No overheating related freshwater loss

All-in-one system

- Solar storage cylinder 200 l / 300 l with double Jacket heat exchanger and electrical immersion heater (1.5 kW)
- High efficiency flat plate collector (1 / 2 pcs)
- Solar heat transfer liquid
- Overheat control device and insulated connection tubes
- Safety valve for solar circuit and drinking water loop
- Complete set for free-standing or on-roof mounting





Thermostatic Overheat Protection

How it works

During normal operation the overheat protection device (2) is open, so a natural convection circuit between collector (1) and the u-shaped SECUTERM heat exchanger (4) is enabled.

When the temperature at the overheat protection device (2) exceeds 95 °C it closes, so that the convection circuit of the collector loop is interrupted.

Vapour bubbles occurring inside the collector (1) while temperature is rising and pushing the liquid through the return pipe back (3) into the double jacket SECUTERM heat exchanger (5). The air volume inside the solar heat exchanger (6) gets compressed, acting as an expansion vessel. Thus the loading of the drinking water cylinder (7) will stop.

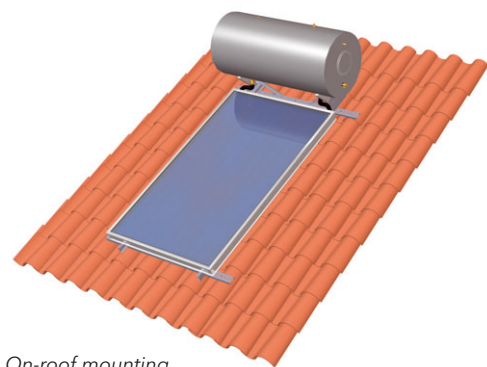
The solar drinking water cylinder (7) cools down when hot water is drawn from it and cold water flows in from the water supply mains, so the overheat protection device opens again.

Customised Mounting Options: Free-Standing or On-Roof Installation

- Complete mounting system including pre insulated flexible stainless steel pipes in order to minimise heat losses.
- For an adjustable free-standing installation (max. inclination of 45°)
- On-roof mounting including high quality roof brackets.



Free-standing mounting



On-roof mounting

Technical Data

SECUterm - Thermosiphon-System	Persons	Collector EURO C32 HTF TS (quantity/gross area)	Thermosiphon-solar cylinder	Type of mounting
SECUterm 200 P/I	up to 4	1 / 2,24 m ²	200 l	Free-standing or on-roof installation
SECUterm 300 P/I	up to 6	2 / 4,48 m ²	300 l	Free-standing or on-roof installation

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