



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

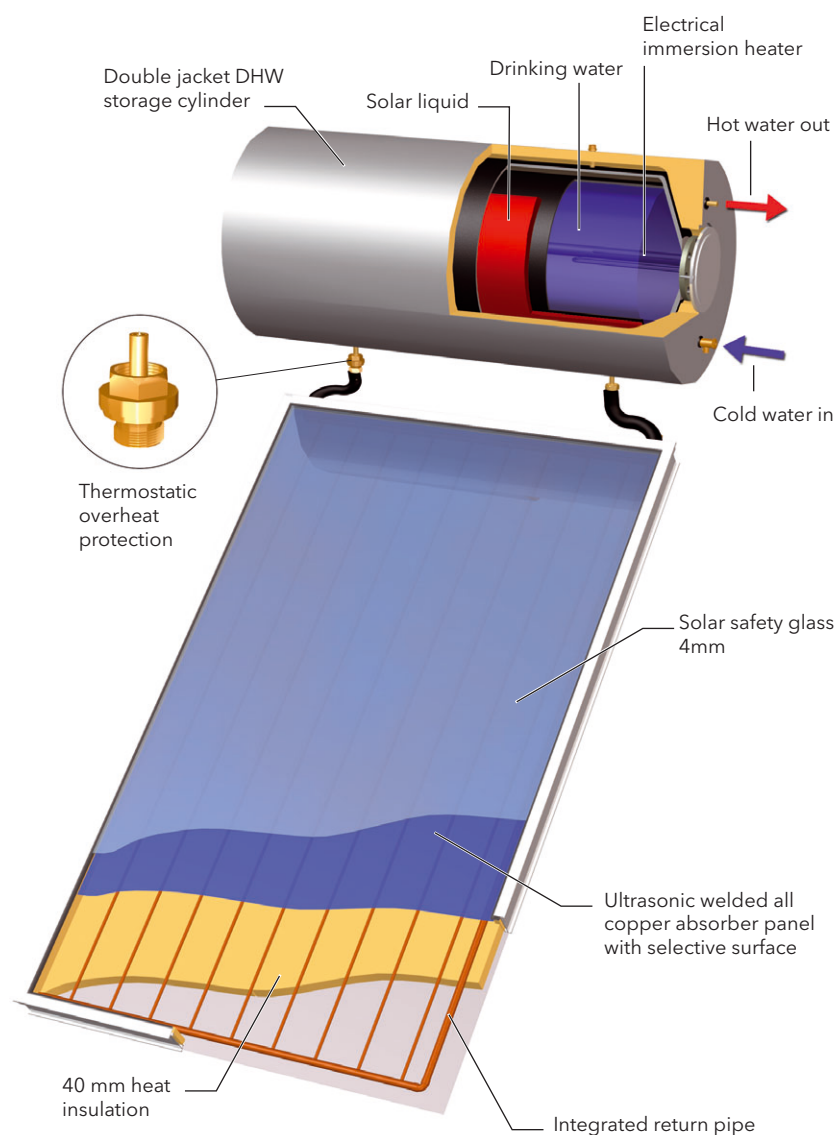
- Easy and fast installation
- Reduced heat loss
- Compact and appealing design
- Strong and durable construction

Thermostatic overheat protection

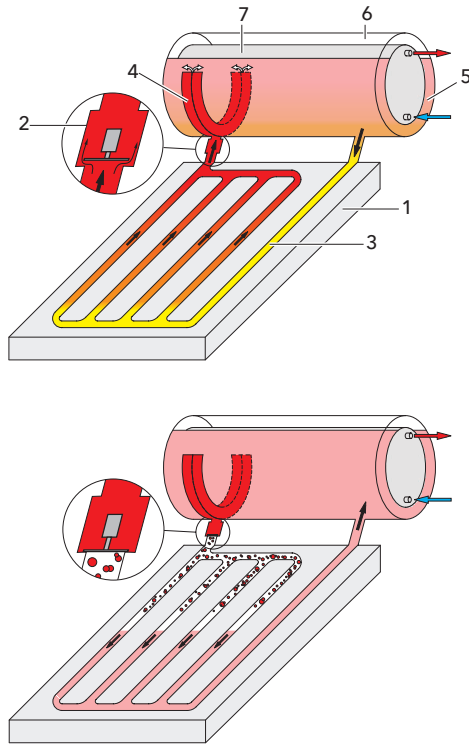
- Temperature limited to max. 80 °C inside storage cylinder
- Low maintenance at high life time
- No scaling of thermostatic valves
- No system failure resulting from loss of solar fluid
- No overheating related freshwater loss

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

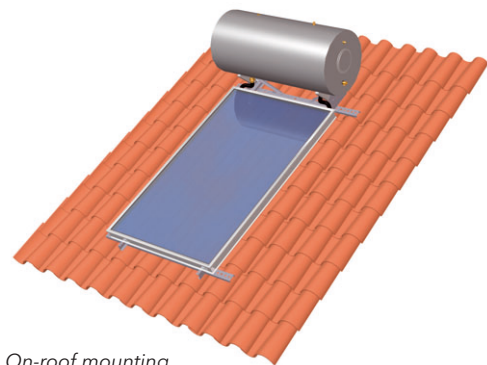
- During normal operation the overheat protection device is open, so a natural convection cycle between collector and cylinder is enabled.
- When the temperature at the overheat protection device exceeds 95 °C it closes, and the convection circuit is interrupted.
- The vapour bubbles push the liquid through the return pipe back into the solar cylinder. The air volume inside the solar cylinder gets compressed, acting as an expansion vessel.
- The solar cylinder cools down when hot water is drawn from it, and the overheat protection device opens again.

Schematical description of the system at a temperature below 95 °C (upper picture) and with approx. 100 °C (lower picture): collector (1), overheat protection (2), collector integrated return pipe (3), U-shaped heat exchanger inlet (4) of the double jacket SECTUERM heat exchanger (5) using air volume for solar liquid expansion (6), surrounding the drinking water tank (7).

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



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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