



flat-plate thermal collector **TS500**

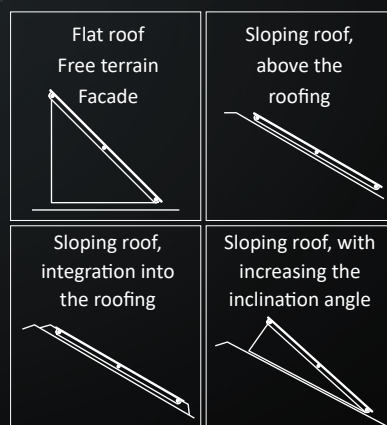
Collector with increased absorber area. Its design originates from the most popular TS 300 collector type. The copper pipe meander is attached to the absorber using a patented technology. The TS 500 is suitable for all common applications like DHW heating, pool water heating and space heating support.

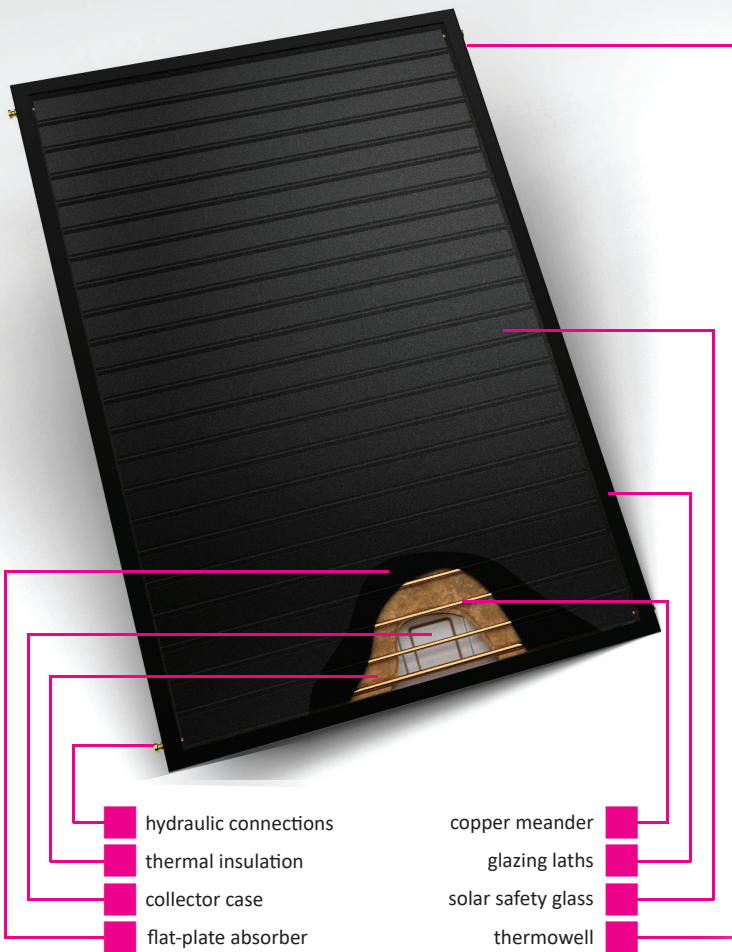
It is particularly suited for multi-dwelling buildings and other systems where large number of collectors need to be installed. Just like other types of TS collector, the TS 500 provides good thermal power output, reliability, long lifetime and attractive design.

Why choose TS 500?

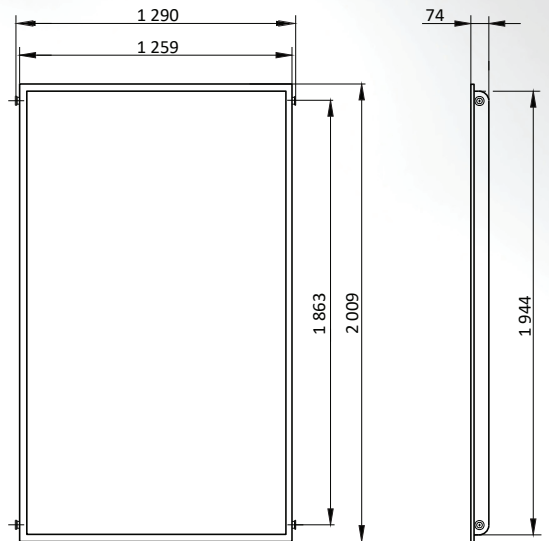


Large-area version of the best selling type of pressed metal case TS collector. Features modern design, and is made of recyclable materials. Suitable for any type of roof - including yours.





Dimensions:



Technical parameters:

Dimensions	2 009 x 1 290 x 74 mm
Gross area	2,53 m ²
Absorption area	2,26 m ²
Aperture area	2,26 m ²
Linkage dimensions	1 290 mm
Weight	44,6 kg
Liquid content	2,15 l
Max. operation pressure of heat transfer liquid	600 kPa
Recommended flow rate of heat transfer liquid	30-100 l/h per one collector
Connections	<ul style="list-style-type: none"> • union nut connections 3/4" • flanged pipe connections \varnothing26 mm
Thermowell	for sensor \varnothing 6 mm
Cover glass	solar safety glass, thickness 4mm
Collector case	stamping made of non-corosive Al-Mg sheet
Thermal insulation	mineral felt, thickness 40mm
Selective absorber coating	ALOX (black)
Solar absorptivity $a_{AM1.5}$	95%
Thermal emissivity $e_{82^{\circ}C}$	13% ALOx
Optical efficiency	81%
Recommended operation temperature	below 100°C
No-load temperature (1000 W/m², 30°C)	200°C
Max. thermal power output (1000 W/m², 30°C)	1 810 W

Flat-plate solar collector TS500:

Flat-plate collector with increased area. Designed for solar systems with circulating pumps. It is installed in vertical position. Collectors are connected in parallel to each other. Maximum 8 collectors connected in one row.

Collectors base consists of a compact pressed metal case made of Al-Mg sheet. A solar safety glass is attached to the case by glazing laths made of anodized aluminium profiles.

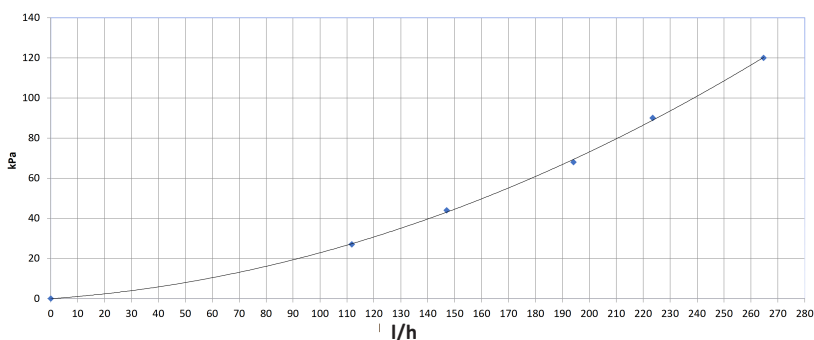
Absorber is made of specially shaped aluminium sheet with selective conversion layer. The sheet covers a copper pipe meander (patented solution).

The TS500 collector is produced in the following variants:

- with flanged connections (connection to solar circuit is provided by quick couplers \varnothing 26 mm)
- with union nut connections

TS500 (P)	with flanged connections	S1587
TS500 (M)	with union nut connections	S1596

TS 500 Graph: Pressure Drop (kPa) vs Flow Rate (l/h)
Medium: Thesol (Propylene glycol 50%) Temperature: 50 °C



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