



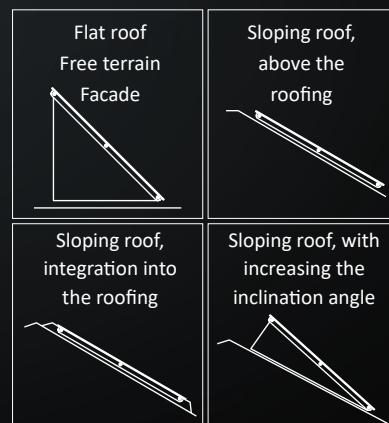
flat-plate thermal collector **TS300**

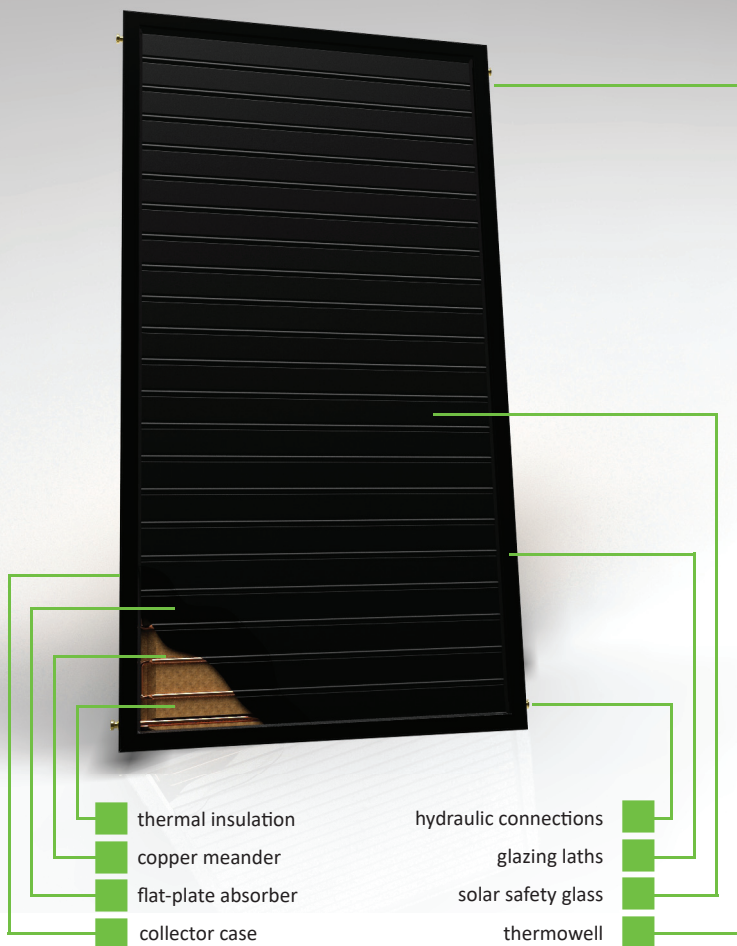
Thanks to its favourable power/price ratio, the TS 300 collector is the best selling model in the TS range. It is designed mainly for DHW heating, pool water heating and space heating support. It combines good thermal power output, reliability, long lifetime and attractive design.

The solution of joining the copper pipe meander with the aluminium absorber provides excellent heattransfer and high efficiency. The TS 300 is an ideal solar heat source for family houses as well as multi-dwelling buildings.

Why choose TS 300?

The best selling model in the TS collector range. Provides exceptional thermal power output, and it can significantly decrease your DHW or pool heating bills.





Flat-plate thermal collector TS300:

Flat-plate collector designed for solar systems with circulating pumps. It is installed in vertical position. Collectors are connected in parallel to each other. Maximum 10 collectors can be 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.

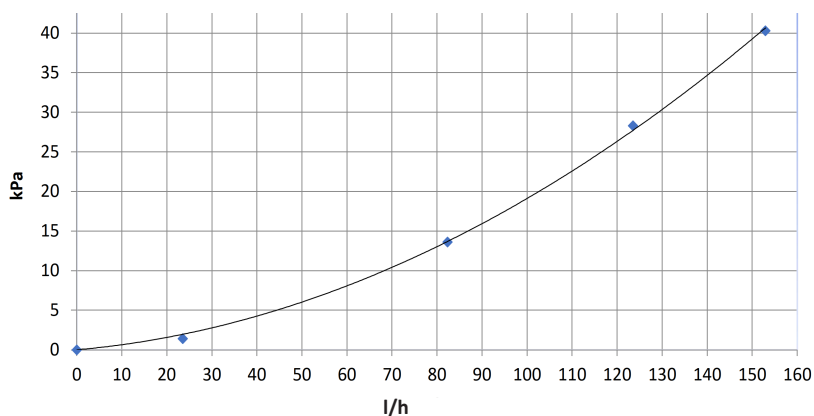
Absorber is made of specially shaped aluminium sheet with selective conversion layer. The sheet covers a copper pipe meander (patented solution).

The TS 300 collector is produced in the following variants:

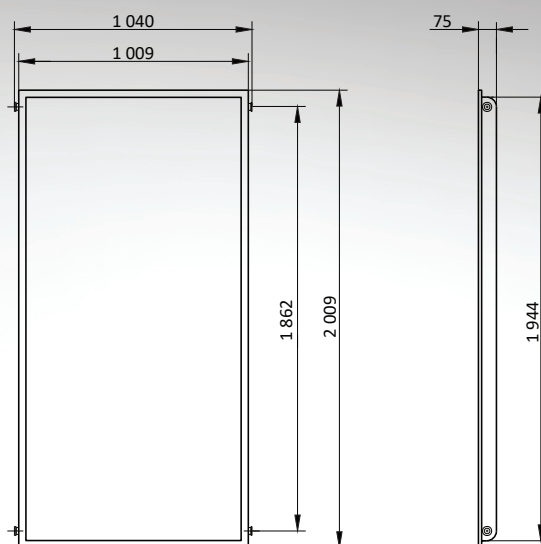
- with flanged connections (connection to solar circuit is provided by quick couplers $\varnothing 26$ mm)
- with copper pipe connections $\varnothing 18 \times 0.8$ mm (connection to solar circuit is provided by soldering)
- with union nut connections

TS300 (P)	with flanged connections	S1542
TS300 (L)	with copper pipe connections	S1543
TS300 (M)	with union nut connections	S1573

TS 300 Graph: Pressure Drop (kPa) vs Flow Rate (l/h)
Medium: Thesol (Propylene glycol 50%) Temperature: 50 °C



Dimensions:



Technical parameters :

Dimensions	2 009 x 1 009 x 75 mm
Gross area	2,03 m ²
Absorption area	1,78 m ²
Aperture area	1,78 m ²
Linkage dimensions	1 040 mm
Weight	36,1 kg
Liquid content	1,7 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 $\varnothing 26$ mm Cu pipes $\varnothing 18 \times 0,8$ 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	bellow 100°C
No-load temperature (1000 W/m², 30°C)	200°C
Max. thermal power output (1000 W/m², 30°C)	1 452 W



THERMO/SOLAR Žiar s.r.o.
Na vartičke 14
965 01 Žiar nad Hronom
Tel.: +421-45-601 6080
E: info@thermosolar.sk
W: www.thermosolar.sk