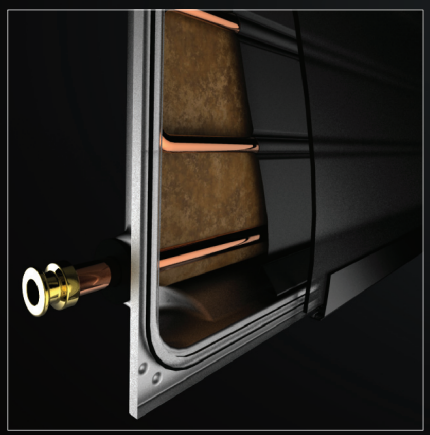
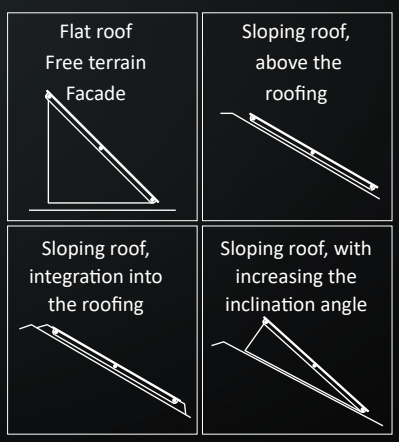
flat-plate thermal collector TS330/M

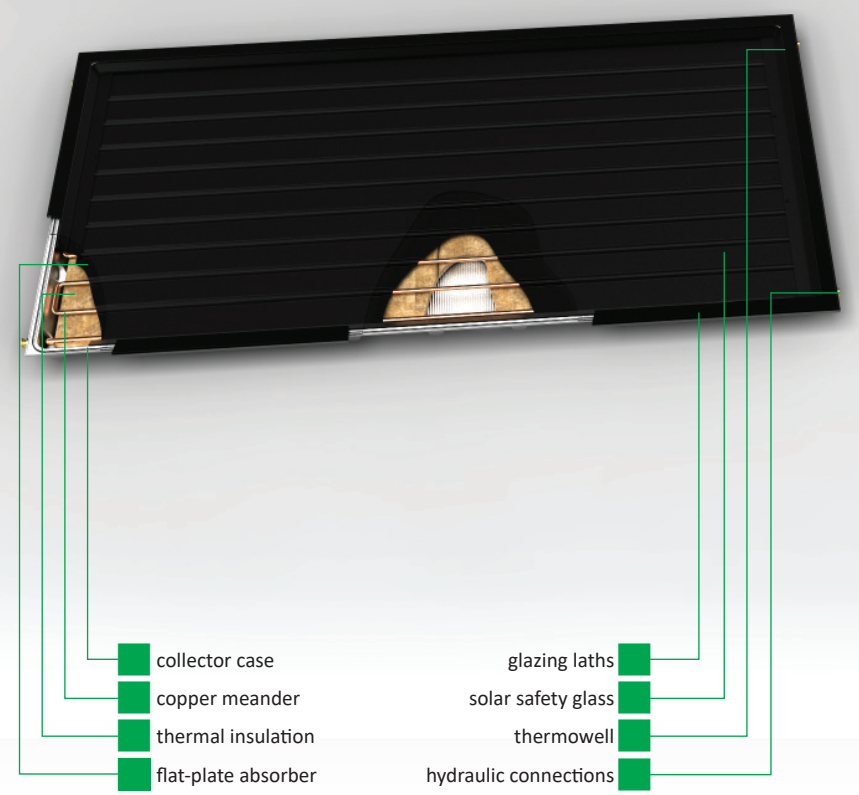
Horizontal version of popular TS 300 collector. Designed to be installed everywhere where the vertical collectors can not be installed. In addition to family houses, the TS 330/M is well patented suited for multi-dwelling buildings and other high buildings with flat roofs, where it is necessary to minimize the effects of wind. This collector is ideal for installations on facades.

Why choose TS330/M?

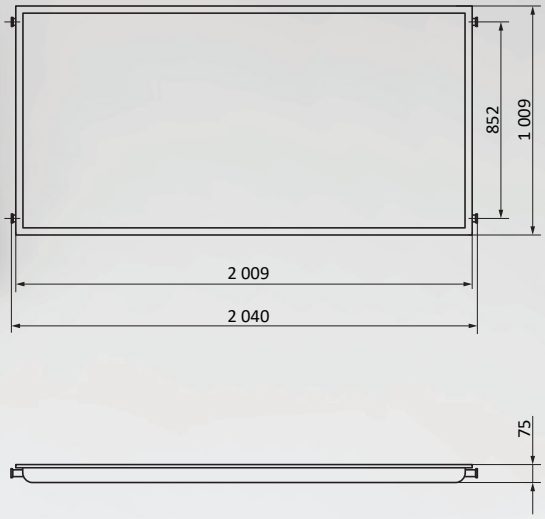


This horizontal collector is best suited for installations on balconies and facades, and it is irreplaceable for installations on high buildings.





Dimensions:



Flat-plate thermal collector TS330/M:

Flat-plate collector designed for horizontal installation (on facades, balconies, flat roofs of high buildings etc.).

It is designed for solar systems with circulating pumps. Collectors are connected in parallel to each other. Maximum 5 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.

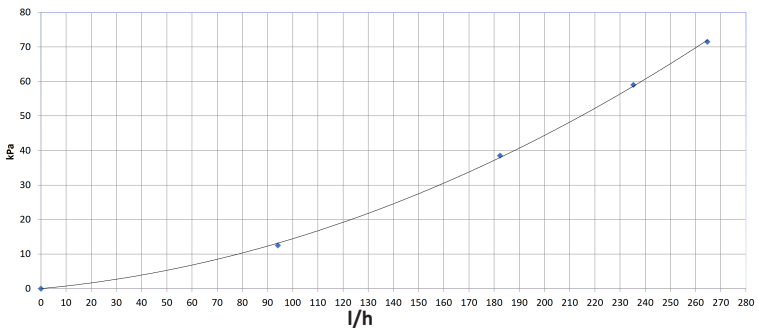
Absorber is made of specially shaped aluminium sheet with selective conversion layer.

The TS 330/M collector is produced in the following variants:

- with flanged connections (connection to solar circuit is provided by quick couplers ø26 mm)
- with copper pipe connections ø18x0.8mm (connection to solar circuit is provided by soldering)
- with union nut connections

TS330/M (P)	with flanged connections	S1598
TS330/M (L)	with copper pipe connections	S1599
TS330/M (M)	with union nut connections	S1595

TS 330 Graph: Pressure Drop (kPa) vs Flow Rate (l/h)
Medium: Thesol (Propylene glycol 50%) Temperature: 50 °C



Technical parameters :

Dimensions	1 009 x 2 009 x 75 mm
Gross area	2,03 m²
Absorption area	1,78 m²
Aperture area	1,78 m²
Linkage dimensions	1 040 mm
Weight	36,5 kg
Liquid content	1,96 l
Max. operation pressure of heat transfer liquid	600 kPa
Recomended flow rate of heat transfer liquid	30-100 l/h per one collector
Connections	• union nut connections 3/4" • flanged pipe connections ø26 mm • Cu pipes ø 18x0,8 mm
Thermowell	for sensor ø6 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 $e_{82°C}$	13% ALOx
Optical efficiency	81%
Recomended operation temperature	bellow 100°C
No-load temperature (1000 W/m2, 30°C)	190°C
Max. thermal power output (1000 W/m2, 30°C)	1 436 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