

ALTENSOL thermosiphon systems - long-lasting quality with maximum independence



On-roof and flat-roof installation

ALTENSOL thermosiphon systems can be securely mounted on the most common types of roof with structurally tested substructure.

ALTENSOL thermosiphon systems offer hot water from solar power with outstanding quality and minimal installation effort. The systems operate independently of the existing heating system and do not need to be integrated. This close system operates by force of gravity and does not require a circulating pump, no electronic control and no connection to the mains.

Uncompromising quality

The thermosiphon system is available in two different sizes, both offering the proverbial ALTENSOL quality. The collector consists of high quality, corrosion-resistant aluminium with hailstone-resistant 4 mm clear glass. The storage cylinder is galvanized and has a weather resistant coating. The cylinder has an unusually long lifecycle even when subjected to extreme weather conditions.

Optimum potable water hygiene

ALTENSOL thermosiphon systems always work with two separate circuits, i.e. the potable water is not heated in the collector itself but hygienically through the solar fluid circulating within the cylinder jacket (tank-in-tank-system).

- Series
- Optional

		Number of collectors		Gross area m ²		Type		Double jacket		Electrical heating cartridge	
		Flat-roof	On-roof	Flat-roof	On-roof	Series	Type	Series	Type	Series	Type
ALTENSOL thermosiphon system M	2-4 Persons	1	2.06	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TS 150-1 W		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
ALTENSOL thermosiphon system L	4-6 Persons	2	4.12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TS 300-1 W		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Applications	Collector array		Series		Storage cylinder					

The package includes:

Collectors, storage cylinder, hydraulic kit, Solar fluid and installation system.
Exact bill of material available on request.



Attractive monoblock design and wide variety of installation types

High level solar radiation demands high standards

ALTENSOL Thermosiphon systems are manufactured to satisfy the special requirements of sunny areas such as the Tropical's. The result is a system able to withstand the highest fluctuations in temperature

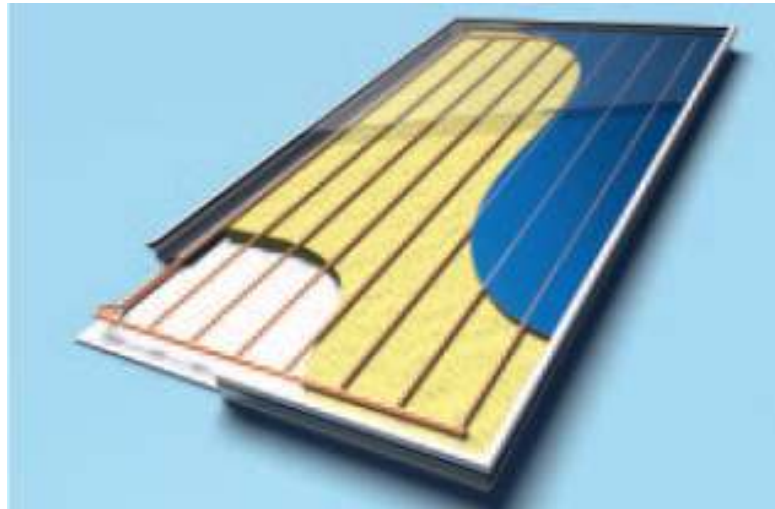
Optimum connection and attractive design

The way in which the return flow is integrated with the collector is a truly innovative feature, and has additional benefit of concealing and protecting the connecting pipe. To further improve the appearance, the distance between the collector and storage cylinder is minimized to provide for an especially high quality monoblock design.

Two methods of installation for the most common roof types

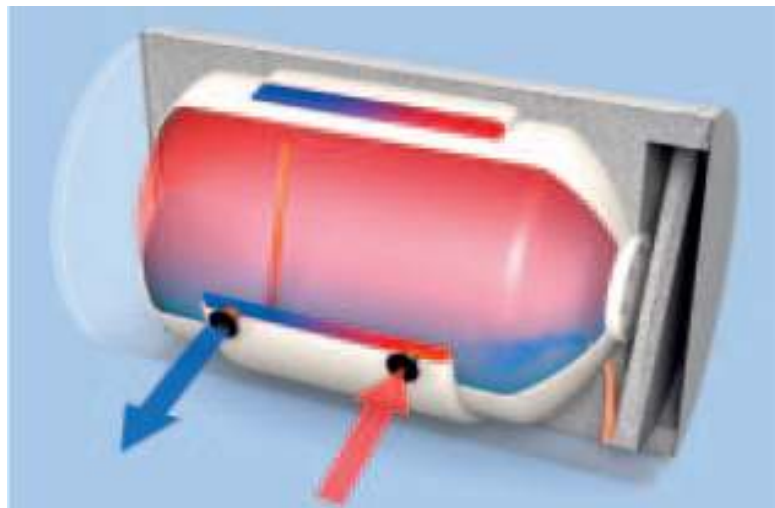
The flat-roof installation is especially common in Southern Europe. For the thermosiphon system, ALTENSOL provides flat-roof stands made from especially strong aluminium L profiles with securing cruciform.

Alternatively, the thermosiphon system can be fitted to pitched roof, for which ALTENSOL provides the appropriate roof anchors and installation profiles, even for unusual roofs.



Section drawing of thermosiphon collector

- Collector frames and rear panel are made from aluminium
- Radian piping for optimum thermal flow
- 4 mm clear glass with optimum angle correction factor
- Integrated return flow pipe for protection against weather and to allow simplified installation.
- Seamless, non-bonded EPDM gasket between glass and collector frame for thermal stress-free and secure sealing under all temperature conditions.



Section drawing of thermosiphon storage tank

- Separation of potable water from solar fluid through thermal jacket (tank-in-tank-system).
- Galvanized and painted special tank with high corrosion resistance
- Storage tank volumes 160 or 320 liters, depending on application
- Polyurethane foam insulation with additional polyurethane casing for optimum insulation and protection against the weather

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