

Product information

Solar water heater



Product description:

Non-pressurized solar water heater for use in open hot water systems. The vacuum tubes, which are directly inserted in the storage tank, are filled with fresh water. Solar energy heats up the water in the tubes and a phenomenon, known as thermosiphon effect, circulates the hot water through the tubes into the storage tank.

The solar water heaters are using aluminium plates as reflector behind the tubes to ensure high stability and efficiency.

An electric heating rod, which can be controlled by a time switch clock and an internal thermostat can be added. Alternatively an automatic control unit can be used. If used without electric heating, the solar water heater needs no electric power supply.



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The solar water heaters include:

- Evacuated tubes
- Insulated stainless steel storage tank
- Bracket with inclination 42° (flat roof)
- Reflector
- Air vent

Options:

Electric heating rod 1.5 kW and water level/heating rod control.

Applications:

Independent, seasonal hot water solution for:

- Holiday, weekend and garden houses
- Camping
- Agriculture
- Sport and swimming areas
- Independent solutions

In frost-free areas, whole year solutions can be realized.

Technical data:

Inner tank:	stainless steel 1.4301; s = 0.6 mm
Outer tank/side cover:	white painted steel; painted steel s = 0.43 mm
Support frame/reflectors:	aluminium alloy (A)
Storage tank insulation:	PU foaming HFC free; s = 50 mm
Evacuated tubes:	boron-silicat glass 3.3; Ø 47 mm / 37 mm L = 1.600 mm
Sealing rubber rings:	silicon
Electric heating rod (opt.):	(230 V/50 Hz), 1.500 W, CE
Maximum pressure:	non-pressurized
Bracket inclination:	42°
Inlet/outlet:	1/2" outer thread



Sizes:

Type	Tank volume [l]	Number of tubes [-]	Size of system l x h x b [mm]	Package size l x b x h [mm]	Weight with/without water [kg]	Systems p. 20'/40'/H40'
SWH 155	155	20+2	1565x1545x1575	1690*610*555	80/240	38/84/101
SWH 230	230	30+3	2265x1545x1575	2380*610*555	100/330	24/60/75

Depending on the quantity, it is possible to have individual colour design and bracket inclination.

Packaging:

Single system packed in carton box (tubes separated); complete package with all in one carton is possible on special request.

Installation:

The installation of a solar water heater is very simple. The frame is first assembled after which the tank is attached. The glass tubes simply plug into the storage tank and then fix with the tube holders at the bottom. If a tube should become broken, it can be easily replaced.

- Orientation should be to the optimum noon-sun-direction
- Protect from access by children, as components such as piping can be very hot
- On the hot-water side, an automatic mixing valve shall be used
- Piping to and from the system shall be well insulated with suitable (temperature and UV-radiation resistant)

Operation:

Solar water heaters are working under best conditions, if filled in the morning or night and if hot water is used in the afternoon or evening. In such case, the solar irradiation can heat up the water during the day.

It should be avoided to refill the tank while it is heating up. Better always first empty and then refill.

In sub-zero regions, the solar water heater shall be emptied before frost-period is starting and refilled again after the period.

The solar water heaters are just for usage with water.

