

Collector / System

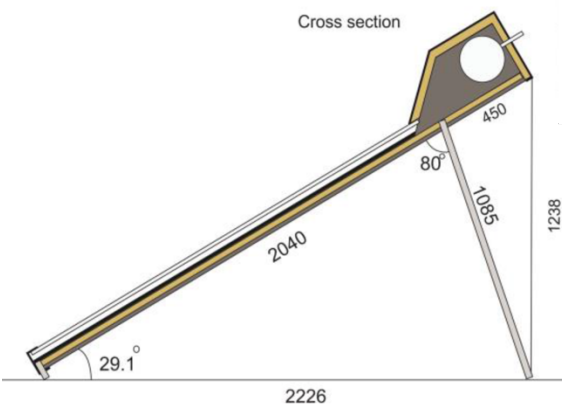
System design	Solar Water Heater / Thermosiphon system (stand alone)
Collector type	Flat plate collector
Module dimensions	Length 2500 mm Width 605 mm Height, collector 71 mm Height, tank 360 mm
Weight (without heat carrier)	28 kg
Weight (filled)	ca. 100 kg
Aperture area, collector	1.0 m ²
Gross area, incl. tank	1.4 m ²
Mounting	On flat ground, on flat roofs
Tilt angle	30°
Heat carrier	Pure water without additives
Inner volume, incl. tanks	75 ± 1 liter
Heat carrier flow direction	vertical
Absorber	Polypropylene twin-wall absorber, thickness: 5.4 mm, Length: 1800 mm, width: 554 mm; Absorptance: 94%, liquid volume ≈ 1.7 litres per absorber
Glazing	Polycarbonate SunType, Clear, with anti-UV treatment Twin-wall sheet, thickness: 10 mm, transmittance: 85%, U-value: 3.1 W/(m ² K)
Thermal insulation	Rock mineral wool, insulation boards for flat solar collectors, KNAUF TSP Solar Board D5, thickness: 25 mm λ-value: 0.035 W/(mK), density 50 kg/m ³
Framing	Aluminium profiles, grey paint-coated (RAL 7043), L = 250 mm
Installation/ operation	Module must not be exposed to direct sun before it is filled with water! Shield the solar water heater from direct sun until it is filled with water.

Storage tank

Outer tank with system water (non-pressurized)	Do not apply pressure! Material: Polypropylene, 3 mm compact, Dimensions: 580 mm x 560 mm x 295 mm Contains system water, non-pressurized; Inlet for filling: Valve at bottom of module Outlet/overflow: At rear top Always keep the overflow open, do not seal!
Inner tank for domestic water (pressurized)	Stainless steel AISI 304L, 17 litres, weight 5.1 kg Max. operation pressure: 8 bar Connections: Cold water inlet: Ø 15 mm outer diam, marked: blue Hot water outlet: Ø 15 mm outer diam, marked: red
Thermal insulation	Outside: polycarbonate twin-wall sheet 10 mm Inside: 25 mm mineral wool;
Start-up/ filling	Always fill the inner Domestic Water Tank before the collector of the Solar Water Heater!

Mounting set & accessories

Material, framing	Aluminium, anodized
Legs A, front part (short legs)	115 mm x 640 mm x 40 mm, weight: 0.5 kg
Legs B, rear part (long legs)	1090 mm x 640 mm x 40 mm, weight: 3.1 kg
Connecting pipes	Ø 15 mm outer diam, length: 46 cm; weight: 0.25 kg/pcs
Water supply pipes	Ø 15 mm outer diam, length: 160 cm; weight: 0.5 kg/pcs



Subject to change without prior notice.

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