



Genersys®

1000-10 Solar Collector

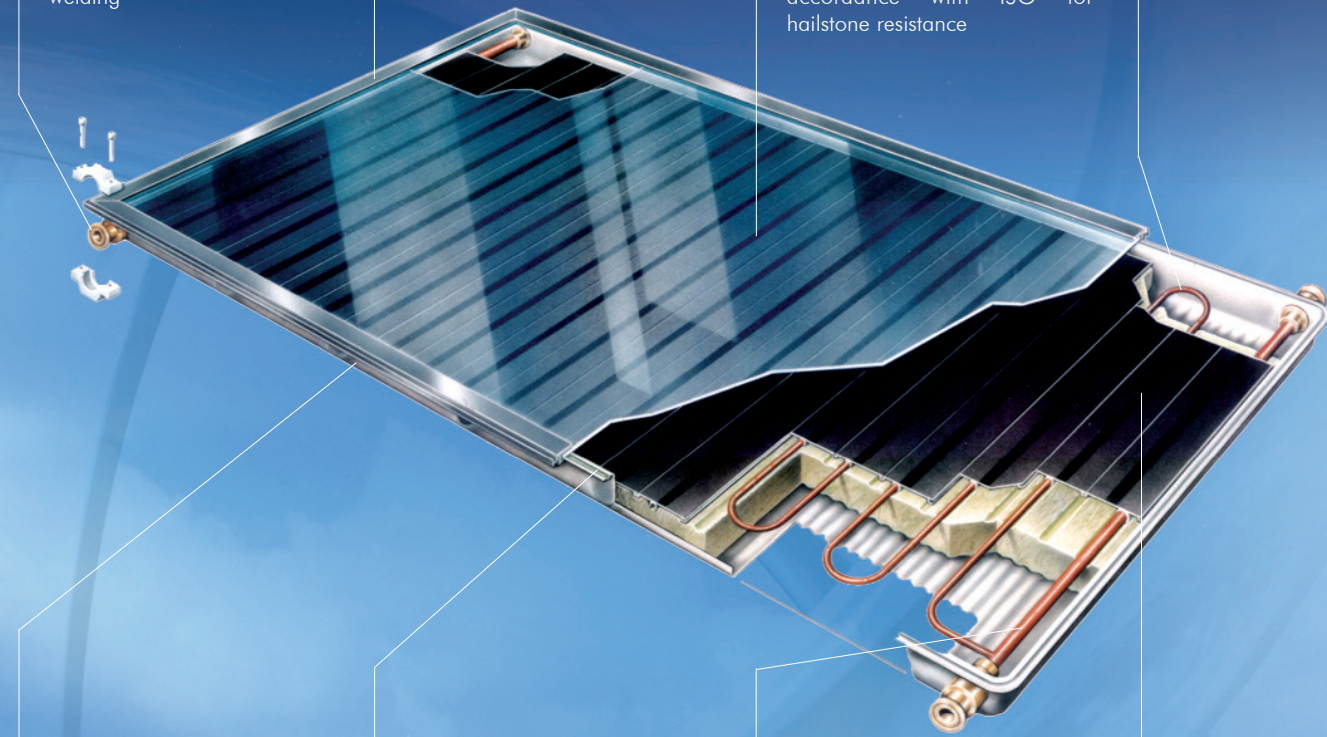
For a greener future

Patented connection clamp for pressure sealed link up to adjacent collector and system piping without soldering or welding

Surrounding glass frame with intergral groove to seal the collector to roof join

Low-reflection transparent, special solar glass, consisting of thermically pre-stressed, hardened white glass, tested in accordance with ISO for hailstone resistance

Meandering heat transfer pipe consisting of compression-proof copper piping



One piece construction (AlMg) of the trough and frame (no joined framing) combined with a compression, vaccum-proof design means longest lifespan of any collector worldwide

Surrounding sealing ring made of superior heat-resistant and age-resistant material

Integrated roof piping allowing erection of collector panels so as to accomodate Tichelmann piping system

Absorber section with plated, highly selective, special coating in thinlayer technology for low loss light-heat conversion with quick transfer of heat to heat transfer pipe.

Genersys 1000-10 Solar Collector

1 panel (2m²) average output 1200 kw per annum at constant 50 degrees C *

GENERSYS 1000-10 is a world leading flat-plate, vertically-mounted type collector without collection pipes, intended for applications in systems equipped with circulating pumps. It consists of a one-piece forged metal casing to which safety solar glass is fixed by means of a frame made from non-corrosive aluminium profile.

Stamped Al-Mg sheet absorber fins with high-selective conversion layer span the copper pipe meander. The flanged connection pipes are connected to the hydraulic circuit by patented connection clamps. The collectors can be connected in series, up to 10 pcs in total.



www.genersys-solar.com

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Technical Data Sheet



Technical Specifications

Floor Space:	2.08 m ²
Absorbing Surface:	1.78 m ²
Linkage dimension:	1024 x 2040mm
Cover glass:	Safety solar glass 4mm thick.
Connection:	Patented connection clamp.
Casing:	Stamping from non-corrosive Al-Mg sheet.

Thermowell: To accommodate Ø 4mm or Ø 6mm sensor.

Solar absorptivity: $\alpha_{M1.5}$	Min. 0.94
Thermal emissivity: $\epsilon_{82^\circ C}$	Max. 0.16
Optical efficiency:	80%
Operating temperature:	Below 100°C

No-load temperature at radiation 1000 W/m² and ambient temperature of 30°C: 170°C

Max. working over-pressure of heat transfer -fluid: 600 kPa

Recommended flow of heat transfer fluid: 60 L/h

High Quality Panel

The casing

- stamping from non-corrosive Al-Mg sheet
- sea-water resistant

The Absorber

- made of corrosion-resistant aluminium
- corrosion-proof and pressure-proof copper piping for fluids

The glass covering

- safety glass for security against breakage, tested for hailstone-resistance
- maximum light-transmitting properties in excess of 90% due to high degree of transparency

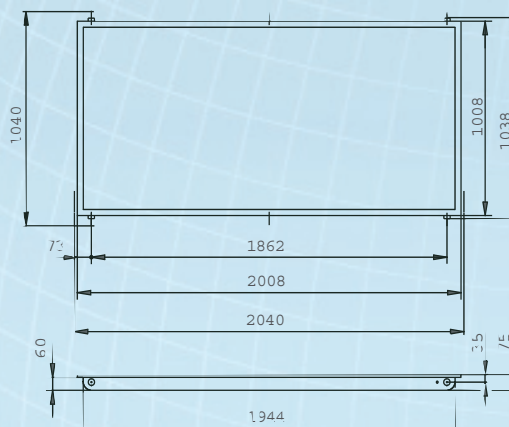
Modular construction in line with architectural requirements

- attractive appearance due to integrated collection piping
- straightforward collector erection even for attic conversions

Energy and environmental protection

- The flat plate collector produces heat without polluting the environment and with only minimal energy consumption. It saves the energy required for its manufacture in approximately 2 years.

Dimensions



Ordering numbers:

Solar Collector Genersys 1000-10	K3133GB
Solar Collector Genersys 1000-10H*	K3041GB
* horizontally mounted	

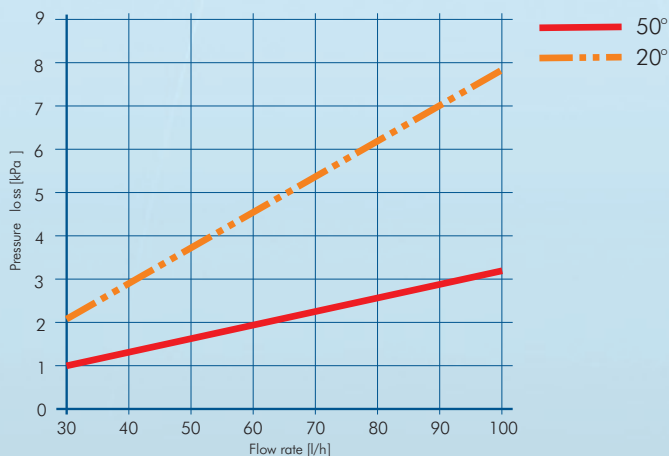
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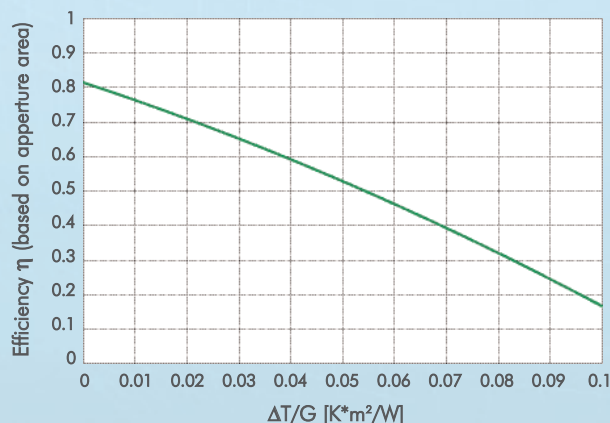
Fax. +44 (0) 207 637 0901

Email: enquiries@genersys-solar.com

Press Loss of 1000-10 Panel with Anti-Freeze Liquid



Efficiency curve for the determined coefficients and for an assumed irradiation of 800 W/m² based on aperture area



Certified and independently tested to comply with BS EN 12975 Parts 1 & 2



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