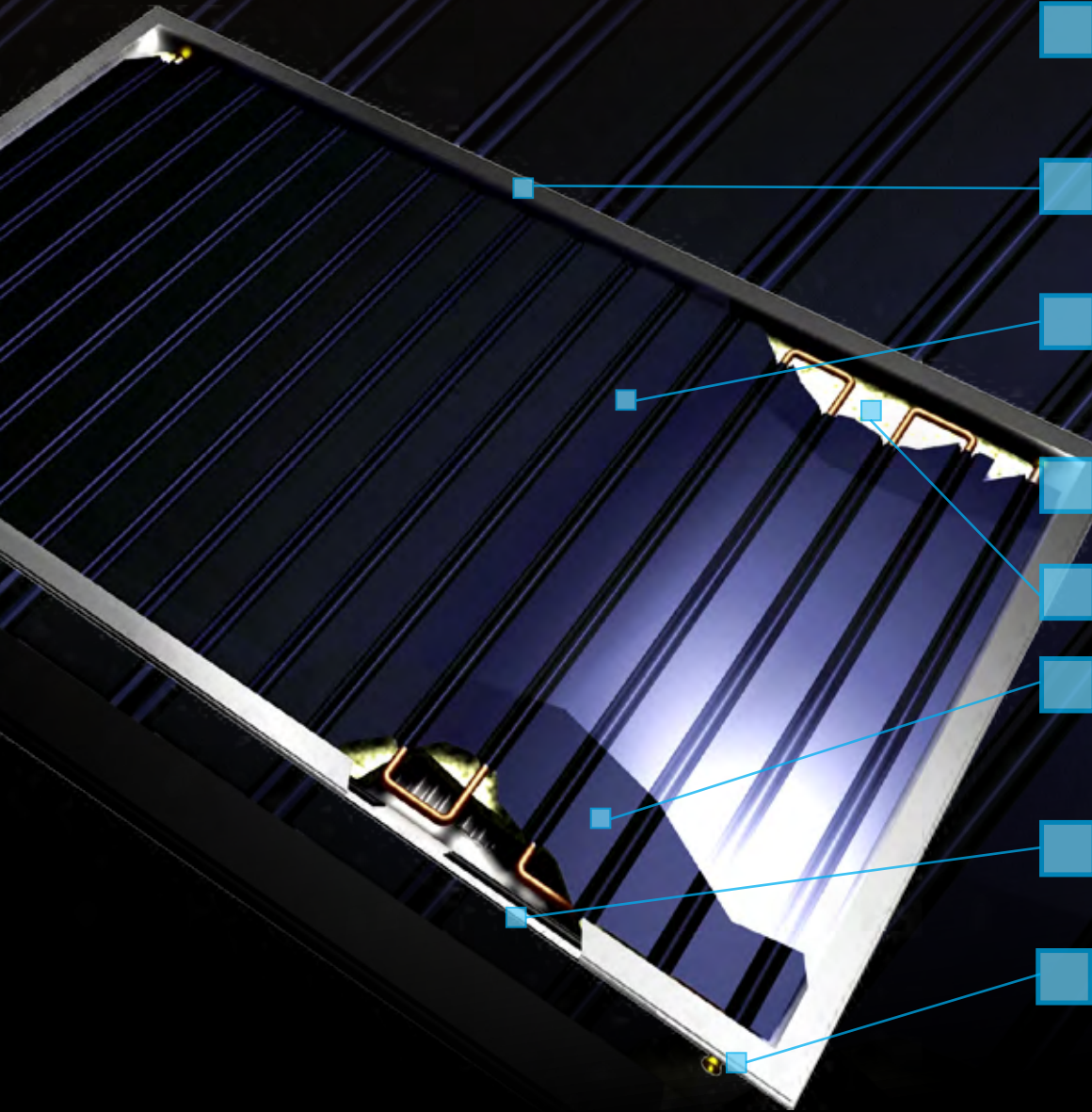




The evolution of solar thermal daylight efficiency • Peak performance 1426W per panel† • Maintenance free



- **Ceramic-Metal CERMET** selective absorber coating compound makes the 1200 one of the world's most efficient panels at capturing and absorbing both diffuse and direct sunlight.
- Unique clam shell design allows the frame to expand and contract without stressing the glass or copper connections
- Low-reflection, highly transparent special solar glass; consisting of thermally pre-stressed, hardened clear glass, tested in accordance with ISO for hail-stone resistance
- Integrated roof piping allowing erection of collector panels so as to accommodate Tichelmann piping system
- Mineral wool insulation at back and sides
- Aluminum absorber sheet with highly selective, CERMET layer technology for low loss light-heat conversion with quick transfer of heat to the meandering heat transfer pipe
- One piece construction of the trough, stamped from a single sheet of aluminum ensures longest lifespan of any collector worldwide
- Patented connection clamp for pressure sealed link up to adjacent collector and system piping without soldering or welding

Cloudy day? Raining? No problem. The 1200 rewrites the rule book to give your customer vacuum-like performance from less than ideal weather with the reliability and durability that installers in over 65 countries have come to expect from GENERSYS build quality.

- World leading 20 year performance & corrosion guarantee
- 35+ years expected lifetime performance of the panel
- Generate up to all of your home, pool or commercial hot water for FREE
- GENERSYS solar panels used in over 65 countries and counting
- Saving tonnes of CO2 per year



Independently certified performance

Contact us to find out how certification can entitle your domestic and commercial customers for government and local grants schemes including the LCBP Phase I & II and Microgeneration Certification Scheme.



The installers choice in over 65 countries.



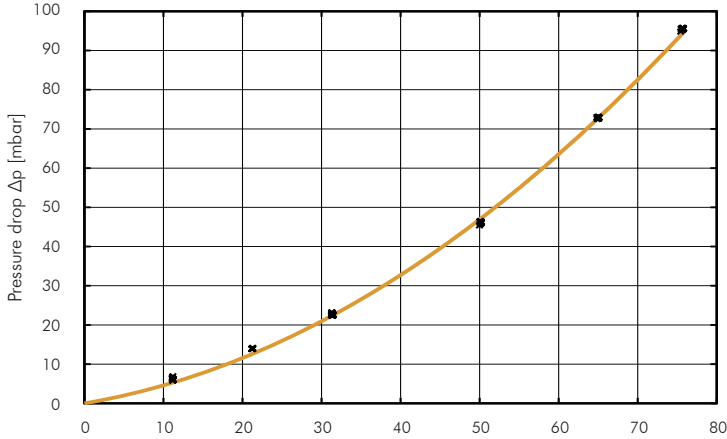
TECHNICAL SUPPORT & TRAINING AVAILABLE, CALL FOR MORE INFORMATION!

Tel: +44(0) 207 637 9708

Email: info@genersys.com

Pressure drop:

Measured pressure drop of the collector Genersys 1200



The pressure drop in mbar can be described by the following function of the mass flow x in kg/h: $\Delta p = 0.3369 x + 0.01203 x^2$

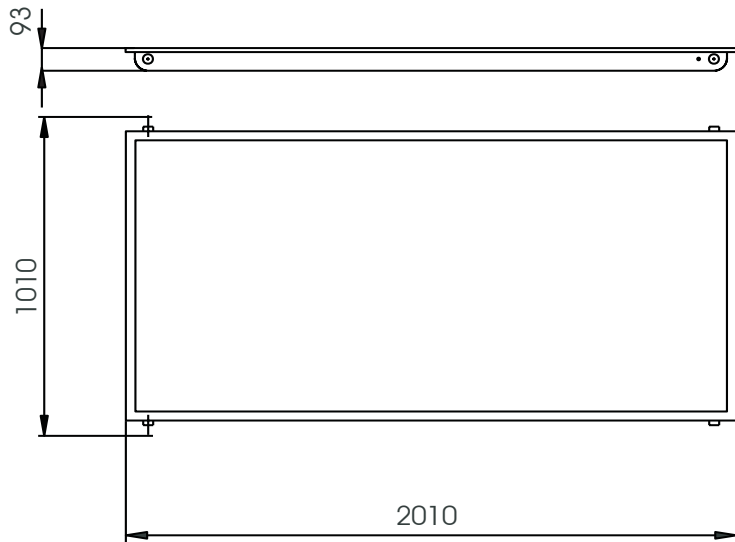
Installer notes:

The GENERSYS 1200 solar panel is a vertically mounted flat plate collector, intended for applications in sealed systems equipped with a circulating pump. The panel 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.

This flat plate is designed for applications which require constant high heat demand. Stamped from a single Al-Mg sheet, the absorber has a high selective Microtherm coating, the absorber folds around the meandering copper pipe. The flanged connection pipes are connected to the hydraulic circuit by patented connection clamps. The collectors can be connected in series of up to 10 panels in total.

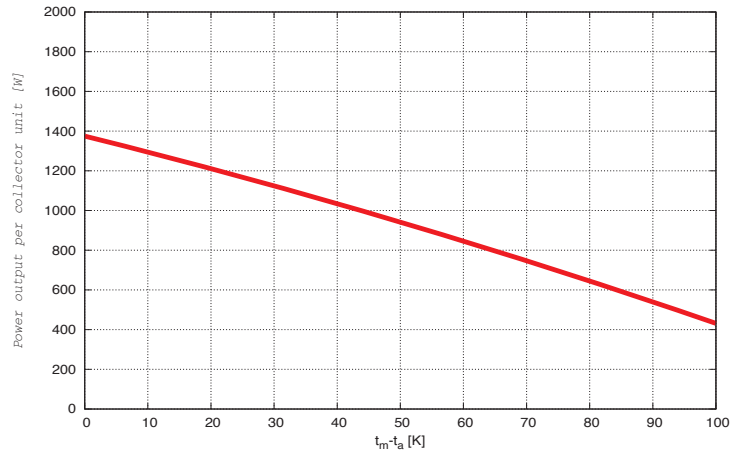
Physical dimensions:

Gross area:	2.030m ² (1010 x 2010 x 93) mm
Aperture size:	1.779m ²
Absorber surface:	1.779m ²
Weight empty:	39 kg
Fluid weight:	1.57 kg
Combined weight:	40.57 kg



Efficiency curve:

Efficiency curve for the determined coefficients and for an assumed irradiation of 1000 W/m² based on aperture area



Power output:

Power output per collector unit [W] for collector Genersys 1200 (aperture area of 1.779 m²):

tm - ta [K]	400 [W/m ²]	700 [W/m ²]	1000 [W/m ²]
10	469	882	1295
30	299	712	1124
50	117	529	942

Panel construction and performance:

Peak performance:	1426 Watts @ 1000W/m ² irradiance
Solar absorptance α:	αM1.5 Min 0.94%
Thermal Emissivity:	5%
Optical efficiency:	95.00 +/- 0.5%
Operating temperature:	120°C
Stagnation temperature:	189.9°C
Recommended operating pressure (Cold fill):	4.5 bar
Maximum operating pressure:	6 bar
Recommended flow rate:	30 – 100l/h per panel
Heat transfer fluid volume:	1.57 litres
Recommended transfer fluid:	Water/Glycol Mix
Recommended mix ratio Cover glass:	50 / 50 (%)
Absorber tube:	Cu 10mm x 0.5mm
Header tube:	Cu 18mm x 0.8mm
Connections:	Patented connection clamp.
Thermowell:	To accommodate 4mm or 6mm sensors
Mineral wool:	60mm back & 15mm sides
Conversion layer:	Microtherm
Hydraulic circuit:	Meandering
Casing:	Non-corrosive Al Mg sheet

www.genersys.com