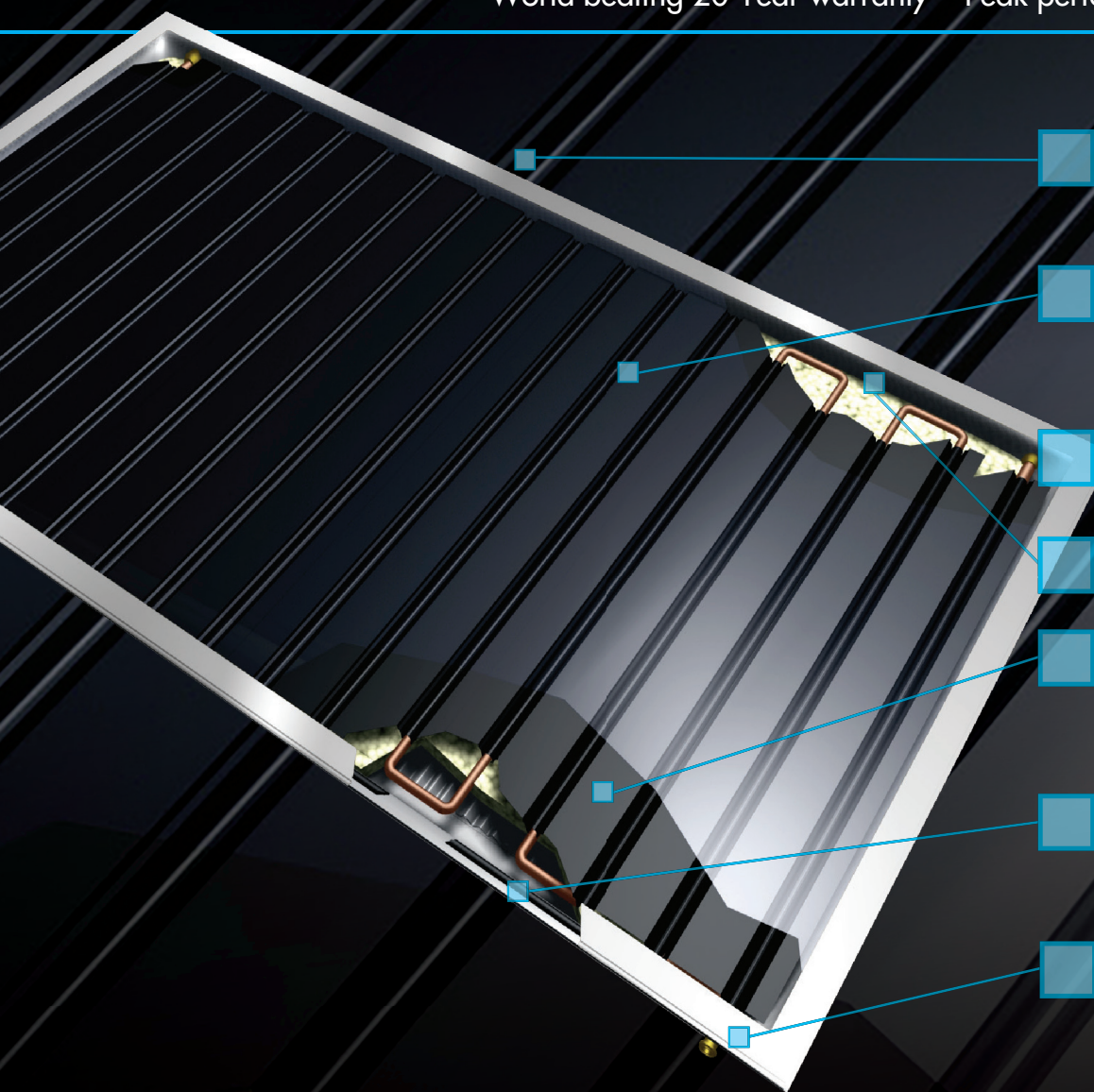




LSP20+ Premium Commercial Panel

World beating 20 Year warranty • Peak performance 1444 W per panel



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

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

Integrated roof piping allowing erection of collector panels to accommodate Tichelmann piping system

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

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

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

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

Safety, reliability and high performance all in one.

A world leading flat-plate, vertically or horizontally LSP20+ mounted solar panel without collection pipes, the LSP20+ is well suited to systems equipped with circulating pumps. The latest generation solar panel design consists of a one-piece forged casing to which safety solar glass is fixed by means of a frame, both made entirely from strong but light non-corrosive Aluminum.

Stamped Al-Mg sheet absorber fins with a high-selective conversion layer span the copper pipe meander. Connection clamps connect the flanged connection pipes to the hydraulic circuit. Extremely scalable, arrays of up to 10 panels can be linked for high demand industrial and commercial systems.

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Certified by the leading test centers

LSP20+ Premium Commercial Panel

Solar Keymark Certification Ref: TSU 002 -21 /D (Vertical Panel)

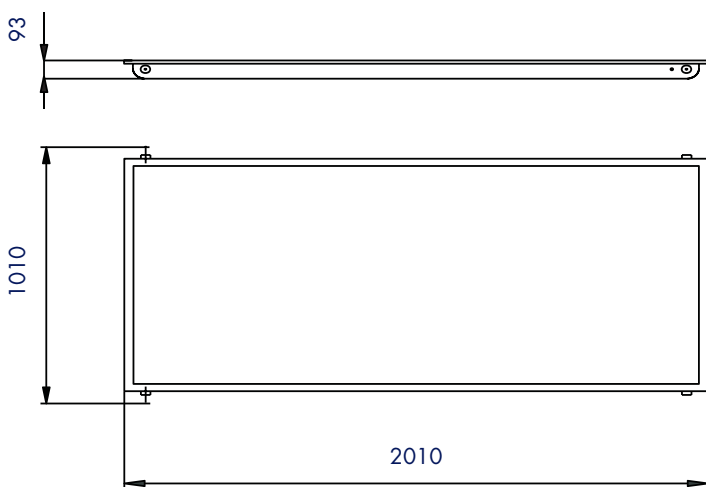
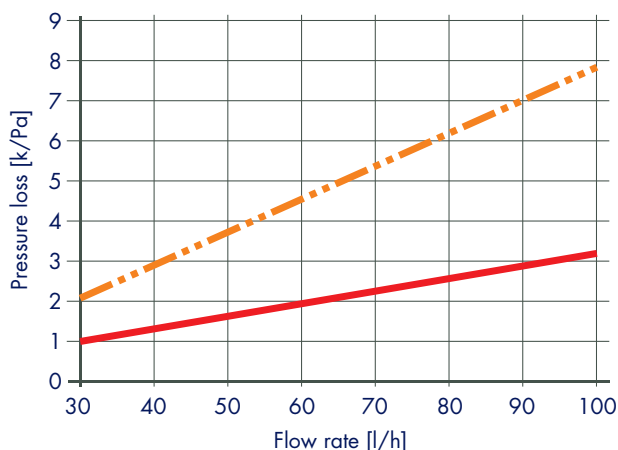


The installers choice in over 69 countries.

Email: enquiries@hotsolarwater.com

Pressure drop:

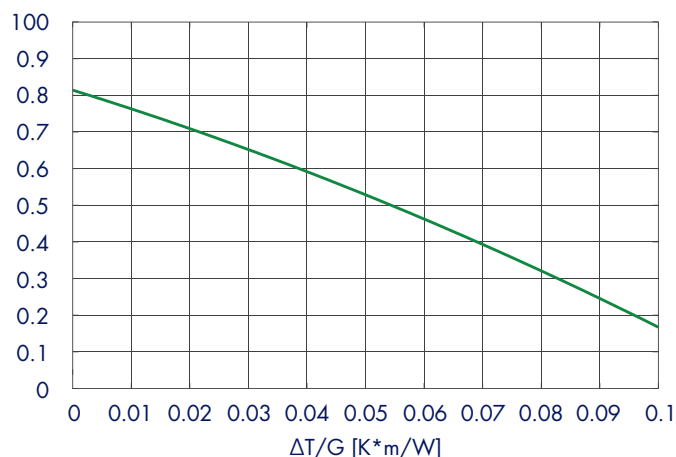
Pressure Loss of LSP20+ Panel with Anti-Freeze Liquid:



Gross area:	2.031 m ²
Absorber area:	1.78 m ²
Dimensions:	2009 x 1009 x 75 mm
Weight empty:	36.1 kg
Weight full:	37.9 kg
Heat transfer fluid volume:	1.57 litres
Energy output:	1444 W
Absorptance α :	0.95
Emittance: ϵ 180F	0.13
Maximum pressure β :	6 bar
Stagnation temperature:	190° C
Recommended flow rate:	60 litres /h
Glass:	4mm Solar safety glass
System arrangement:	Tichelmann
Insulation:	Mineral Wool

Efficiency curve:

Efficiency curve for the determined coefficients and for an assumed irradiation of 800 W/m² (253 Btu/hr ft²) based on aperture area:



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Superior solar engineering for zero maintenance

(Absorber surface) Anodized with an aluminum oxide selective coating, the absorber surface appears as valleys and canyons when looked at through a microscope. This high tech process maximizes the total surface area, ensuring more light captured and results in much higher performance than mainstream panels. As with everything, you get what you pay for.

(Heat transfer) A single copper meandering pipe is folded into the absorber plate for low loss, light-heat conversion ensuring quick transfer of energy to the heat transfer pipe.

(Glass) Highly transparent, hailstone-resistant tempered glass, designed specifically for solar panels.

(Connections) Our panels feature patented connection clamps for pressure sealed links to adjacent panels and system piping without soldering or welding.

(Strong as a roof) A unique clam-shell design allows the panel to expand and contract uniformly without stressing the glass or copper connections resulting in a joint free design giving the LSP20+ amongst the longest lifespan of any panel worldwide.

(Condensation) The LSP20+ allows air to circulate in and out of the panel without heat loss, managing to prevent condensation which many panels fail to do.



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