

SOLAR COLLECTORS

C2000 & C2500 range



Syrius C2000 solar thermal collectors series represents the core of the SYRIUS SOLAR INDUSTRY product range.

C2000 was the result of a solid industrial partnership, manufactured at SYRIUS SOLAR INDUSTRY four production sites, designed to be light in weight nonetheless robust mechanically to serve efficiently and effectively multiple applications whether individual or collective.



Description

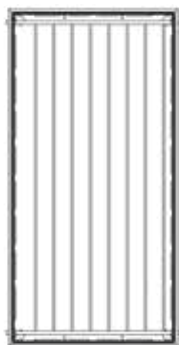
Syrius C2000 collectors were designed for multiple applications:

- Forced circulation systems and Thermosiphons
- Thick insulation of 40mm Rockwool
- High resistance to snow and wind loads (zone 5): validated for high altitudes and hurricane zones
- Hydraulic circuit for forced circulation and thermosiphon



Features

Model	C 2000 D12	C 2500 D12
Absorber type	Selective aluminum laser welded on Cu tubes	
Absorber coating	Highly selective Alanod Mirotherm	
Absorptance / Emittance	95% / 5% +/- 2%	
Collector circuit	Absorber with 8 harp tubes ø12mm and 2 manifolds ø22mm	Absorber with 8 harp tubes ø12mm and 2 manifolds ø22mm
Collector connection	4 outlets Ø 22 for compression fitting	
Dimensions (mm)	2033 x 1015 x 98	2033 x 1245 x 98
Gross area (m ²)	2.05	2.57
Net area (m ²)	1.81	2.30
Net weight (kg)	31	37
Liquid content (liters)	2.13	3
Nominal flow (l/h)	150	180
Nominal pressure loss	0.6 mbar (low flow conditions: 0.3 mbar, water/propylene-glycol 20°C)	
Covering	Low iron, tempered safety glass 3.2 mm (Solar Glass ESG)	
Transmission of covering	91 %	
Impact resistance of covering	Cover passed the optional impact resistance tests following EN12975-2	
Insulation	40 mm rock wool	
Frame collector	Anodised aluminium cover	
Angle of inclination	10° to 90°	
Recommended heat transfer fluid in Europe	Antifreeze mix based on propylene-glycol	
Warranty	10 years	
Efficiency η ₀	62.3 %	62.3 %
Heat loss coefficient a ₁	a ₁ : 3.272 W/(m ² .K)	a ₁ : 3.272 W/(m ² .K)
Heat loss coefficient a ₂	a ₂ : 0.008 W ² /(m ² .K ²)	a ₂ : 0.008 W ² /(m ² .K ²)
Max. stagnation temperature	204° C	
Max. operation pressure (bar)	10 / 6	
Permissible wind load	3 kN/m ² negative pression (3000 Pa)	
Permissible snow load	3 kN/m ² positive pression (3000 Pa)	



Collectors 10 years warranty

Certifications

SolarKeymark collectors certification



Made in France



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