



GREENLAND SYSTEMS

SOLAR THERMAL PRODUCTS

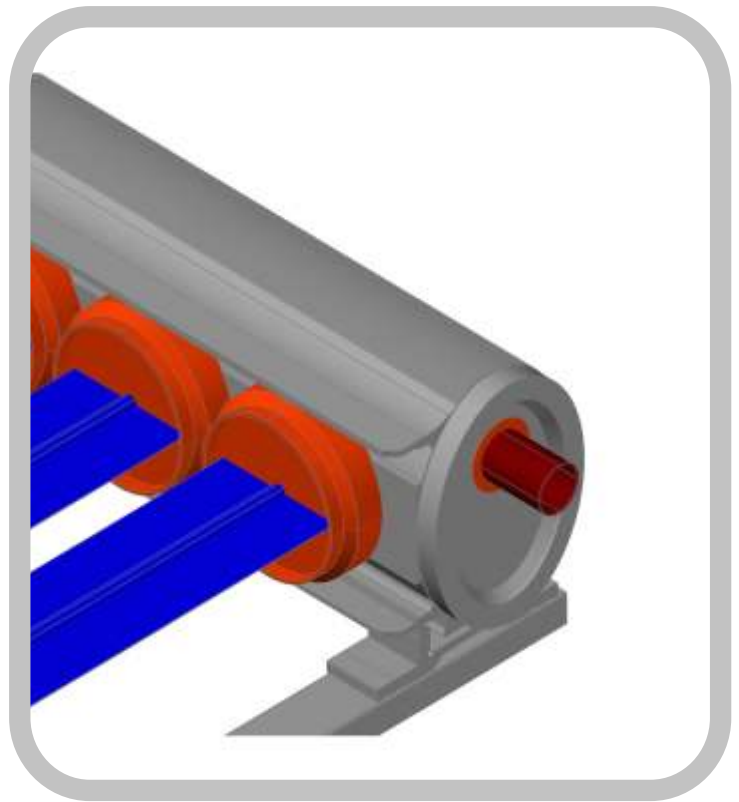
GLX100-ORANGE SERIES

Provides the highest thermal performance of any non-concentrated heat-pipe type solar collector currently on the market. Its High Temperature operating range is similar to 1:10-ratio miniature concentration & tracking solar devices offered by various suppliers. Yet our GLX-100 has no moving parts, is immune to all but most extreme winds and hail, it does not require maintenance and will perform efficiently under both direct and diffused solar irradiation.

GLX100 Solar Collector will continuously provide high temperature heat of up to 165 °C efficiently for the life of the system.

POSSIBLE APPLICATIONS

- Thermal power supply to High Efficiency double-stage solar chillers
- Boiler feed water pre-heating
- Steam generation, sanitation processes
- Food/Dairy Industries
- Industrial heating and drying processes
- Water Purification
- and countless high temperature applications



Collector Model	Dimensions [mm]	Connecting Ports	Construction	Thermal Output [W] at S=1000W/m ²
GLX100-16	1946 x 2160 x 222	C 28 mm x Rp25	<ul style="list-style-type: none"> • Solid extruded Al Header with scratch resistant coating • All stainless steel frame • Teflon surface on glide-clamps to allows for thermal expansion • Tinox ultra-low emittance absorber with HRS 	2340
GLX100-24	2906 x 2160 x 222	or as specified		3510

FEATURE HIGHLIGHTS

- Extra-High Performance Heat Pipe Solar Collector with Single Glass full Vacuum Tube
- Maintenance free for the life of the systems
- Very low hydraulic pressure drop of only 4kPa@20 litres per minute means extremely low pumping power demand and simple hydraulic layout
- Easy to install, modular construction
- Hail impact tested to all major international standards
- Protected against water and dust ingress to IP65
- Heat pipes are freeze-proof to minus 80°C
- Tinox solar absorber is sonically welded to the heat pipe for best heat transmission
- Wind tunnel tested at 180 Km/h from all directions in Monash University wind tunnel, Melbourne
- Special water and dust repellent nano-coating of glass tubes dramatically reduces the need for periodic cleaning
- Snow load support capability at least 560kg
- No internal condensation, no fogging, no moving parts
- Minimum tilt angle of 14 ° without performance loss





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GREENLAND SYSTEMS SOLAR THERMAL POWER FOR MEDIUM & LARGE SCALE PROJECTS

- Echuca Regional Hospital, Vic., Solar Air Conditioning, 270kW
- ANU Canberra, Laboratories & Residential Hot Water, total 340kW
- Carlton Living Apartments, North Carlton, Residential Hot Water, 56kW
- Bank Apartments, City Road South Melbourne, 88kW
- Singleton Public Spa and Swimming Pool, NSW, 30kW
- High Street, North Melbourne, Student Apartments, 26 kW
- Numerous space heating installations with installed solar thermal power between 12kW and 30kW

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