



GREENLAND SYSTEMS

SOLAR THERMAL PRODUCTS

Greenland Systems Solar Collectors Summary

Greenland Systems Provides three different solar collectors for different application requirements.

GL 100-16, GL 100-12

GL 100-16-H [Horizontal Heat Pipe Collector](#)

GLX 100-16 [For high temperature application](#)

Model	Description	Temperature Range	Recommand Service	Installation Angle
GL 100-16, GL 100-12	Green Series Best for any area, particularly for cold winter area	Medium temperature Best performance between 65°C to 120°C	<ol style="list-style-type: none"> 1. Thermal power supply to High Efficiency single-stage solar chillers 2. Domestic and commercial solar hot water 3. Space Heating , floor and hydronic radiation 4. Farm's service water 5. Swimming Pool Heating 	15° to 90 degrees
GL 100-16-H Horizontal Heat Pipe Can Install on top flat roof, Bolcony or any facha of building	Green Series Best for any area, particularly for cold winter area	Medium temperature Best performance between 65°C to 120°C	<ol style="list-style-type: none"> 1. Thermal power supply to High Efficiency – single-stage solar chillers 2. Domestic and commercial solar hot water 3. Space Heating , floor and hydronic radiation 4. Farm's service water 5. Swimming Pool Heating 	0° to 90°
GLX 100-16	Orange Series Horizontal Heat Pipe Can Install on top flat roof, Bolcony	High temperature Best performance between 65°C to 160°C	<ol style="list-style-type: none"> 1. Thermal power supply to High Efficiency double-stage solar chillers 2. Boiler feed water pre-heating 3. Steam generation, sanitation processes 4. Food/Dairy Industries 5. Industrial heating and drying processes 6. Water Purification 	15° to 90°



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 degrees without performance loss

Greenland Systems P/L
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Moorabbin Vic 3189
Australia

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