



# Greenland Systems

[www.greenlandsystems.com](http://www.greenlandsystems.com)



# Company Profile

## Greenland Systems

has been servicing Australian Industries, Community and Health organisations since 1986. Through dedication and persistent hard work the Greenland Systems team have earned a strong reputation for designing and manufacturing reliable “professional grade” thermal, pressure and process control systems.

Greenland Systems Solar Water Heaters are registered with CER and with VEET and they qualify for various government subsidies, such as STCs, VEET Certificates, etc.

In the solar thermal equipment arena Greenland Systems holds several Australian and international patents.

All Greenland Systems Solar Water heaters are manufactured to highest specifications and are made from high quality materials for longest and trouble-free service life. Greenland Systems is using Tinox Solar absorber (by Almedco Tinox, Germany) for highest life-long performance.

### Three Solar Collector Types to best suit your Application

Model	Description	Temp. Range	Recommended Service
<b>GL100</b> <b>Green</b> <b>Series</b> <b>Installation</b> <b>Angle</b> <b>12° to 90°</b>	High Performance Full Vacuum single Glass Heat Pipe Solar Collector	Heating of water and other fluids to 120°C in most climates	<ul style="list-style-type: none"><li>Thermal power supply to high efficiency single-stage solar chillers</li><li>Domestic, industrial and commercial solar water heating</li><li>Hydronic Space Heating</li><li>Commercial Laundries, Hospitals.....</li><li>Food / Dairy processes</li></ul>
<b>GLX100</b> <b>Orange</b> <b>Series</b> <b>Installation</b> <b>Angle</b> <b>15° to 90°</b>	Very High Performance Full Vacuum single Glass Heat Pipe Solar Collector	Heating to 160°C in most climates. Highest Heat Output in most severe climates	<ul style="list-style-type: none"><li>Thermal power supply to High Efficiency double-stage solar chillers</li><li>Boiler feed water pre-heating</li><li>Steam generation, sanitation</li><li>Food / Dairy Industries</li><li>Industrial heating and drying</li><li>Water Purification</li></ul>
<b>GLH100</b> <b>Horizontal</b> <b>Series</b> <b>Installation</b> <b>Angle</b> <b>1° to 90°</b>	Horizontal Type Full Vacuum single Glass Heat Pipe Collector, for horizontal installation of solar tube	Heating of water and other fluids to 120°C in most climates	<ul style="list-style-type: none"><li>Thermal power supply to High Efficiency single-stage solar chillers</li><li>Domestic, industrial and commercial solar water heating</li><li>Hydronic Space Heating</li><li>Commercial Laundries, Hospitals.....</li><li>Food / Dairy processes</li></ul>





**Green Series Solar Collector**

#### FEATURES

- High Performance Heat Pipe Solar Collector with Single Glass full Vacuum Solar Tube
- Maintenance free for the life of the system
- Very low hydraulic pressure drop for low pumping power demand and simple hydraulic layout in large solar fields
- 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 60°C
- Tinox coated solar absorber made of high purity copper is sonically welded to the heat pipe for best heat transfer
- Wind tunnel tested at 180 km/h from all directions in Monash University wind tunnel, Melbourne
- Water and dust repellent nano-coating (optional) of glass tubes significantly reduces the need for cleaning of tubes
- Snow load support capability 1,000 kg
- No internal condensation, no fogging, no moving parts
- Minimum tilt angle of 12 degrees without performance loss

#### FEATURES

- Extra-High Performance Heat Pipe Solar Collector with Single Glass full Vacuum Solar Tube
- Maintenance free for the life of the systems
- Very low hydraulic pressure drop for low pumping power demand and simple hydraulic layout in large solar fields
- 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 60°C
- Tinox coated solar absorber made of high purity copper is sonically welded to the heat pipe for best heat transfer
- Wind tunnel tested at 180 km/h from all directions in Monash University wind tunnel, Melbourne
- Water and dust repellent nano-coating (optional) of glass tubes significantly reduces the need for cleaning of tubes
- Snow load support capability 1,000 kg
- No internal condensation, no fogging, no moving parts
- Minimum tilt angle of 15 degrees without performance loss



**Orange Series Solar Collector**

#### FEATURES

- 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 for low pumping power demand and simple hydraulic layout in large solar fields
- 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 60°C
- Tinox coated solar absorber made of high purity copper is sonically welded to the heat pipe for best heat transfer
- Wind tunnel tested at 180 km/h from all directions in Monash University wind tunnel, Melbourne
- Water and dust repellent nano-coating (optional) of glass tubes significantly reduces the need for cleaning of tubes
- Snow load support capability 1,000 kg
- No internal condensation, no fogging, no moving parts
- Minimum tilt angle of only one degree (near horizontal installation of tubes) without appreciable performance loss
- Horizontal installation can eliminate use of A-Frames

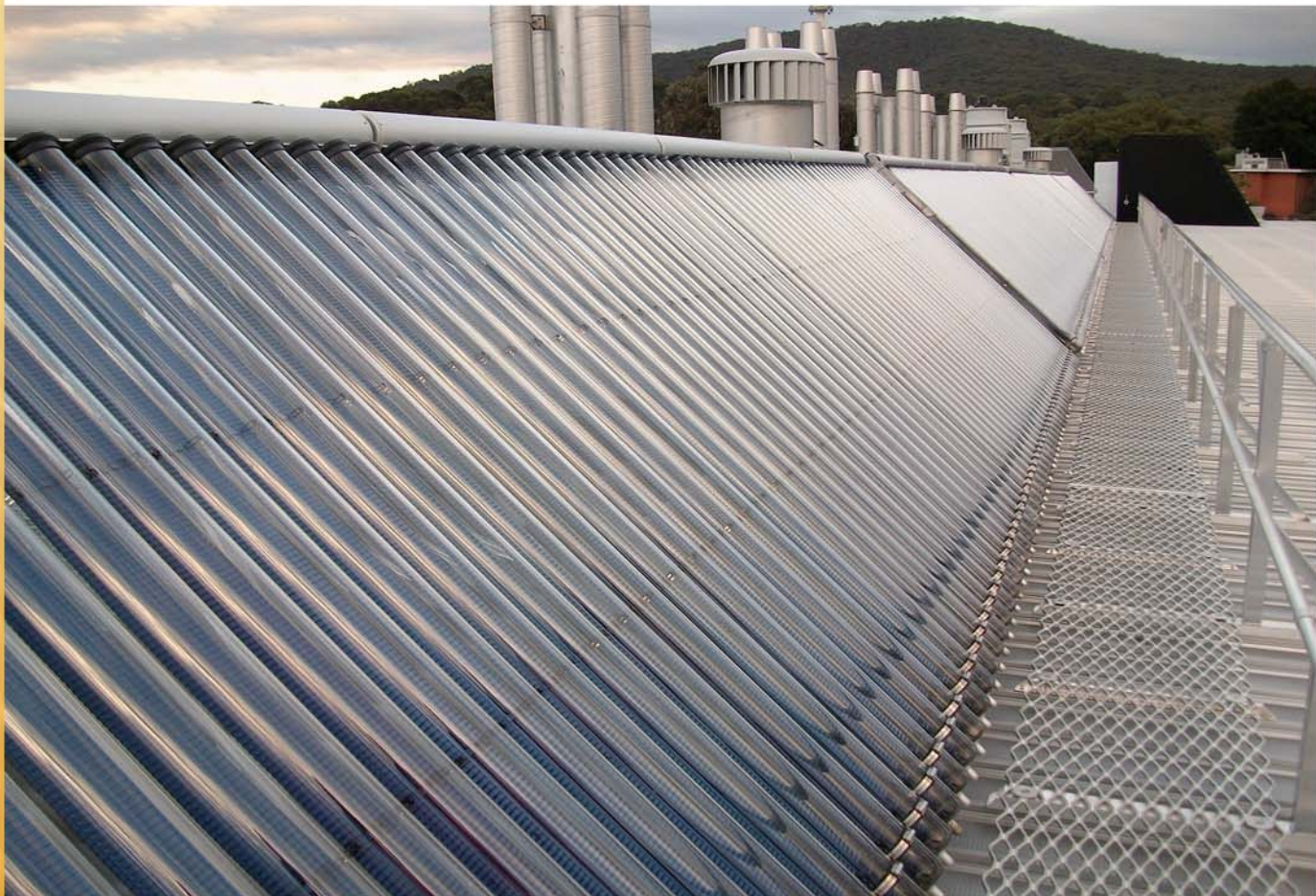


**Horizontal Solar Collector**



# Large Scale Installation Examples

Water Heating Project: 280kW



Solar Cooling Project: 460kW



Greenland Systems P/L Unit 3/5 Kinwal Ct., Moorabbin 3189 Vic. Australia  
Ph: +61 3 9248 2900 Support: +61 3 9248 2902 [info@greenlandsystems.com](mailto:info@greenlandsystems.com)