



GREENLAND SYSTEMS

SOLAR THERMAL PRODUCTS

GLX-100 ORANGE SERIES THE UNIVERSAL HIGH PERFORMANCE SOLAR COLLECTOR



Feature highlights:

- Extra High Performance Full Vacuum Heat Pipe Solar Collector of Single Boron-Glass tube design
- Maintenance Free for the life of the System in all operating conditions and anywhere in the world
- Designed to build into very large solar fields easily. Special Fast-Install Design saves installation time
- Performance Tested according to ISO 9806-1:1994 at up to 160 degrees C at IZES TZSB in Germany
- Wind Tunnel Tested at Monash University in Melbourne at wind speed of 180 km/h from all directions
- Designed to effectively and permanently support Thermal Loads up to 180 degrees C
- Permanently protected against water and dust ingress to IP65
- Freeze-proof to -80 degC and fully stagnation proof in all climates
- Snow Load support capability of at least 560 kg (uniform snow load distribution).
- Can be installed at any tilt angle from 12 degrees to 90 degrees (vertically)
- 12 year worldwide guarantee
- Dust @ water repellent nano-coating eliminates need for cleaning of glass tubes in most environments
- Hail impact tested to all major international standards

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Greenland Systems GLX-100 Solar Collector

Things to consider:

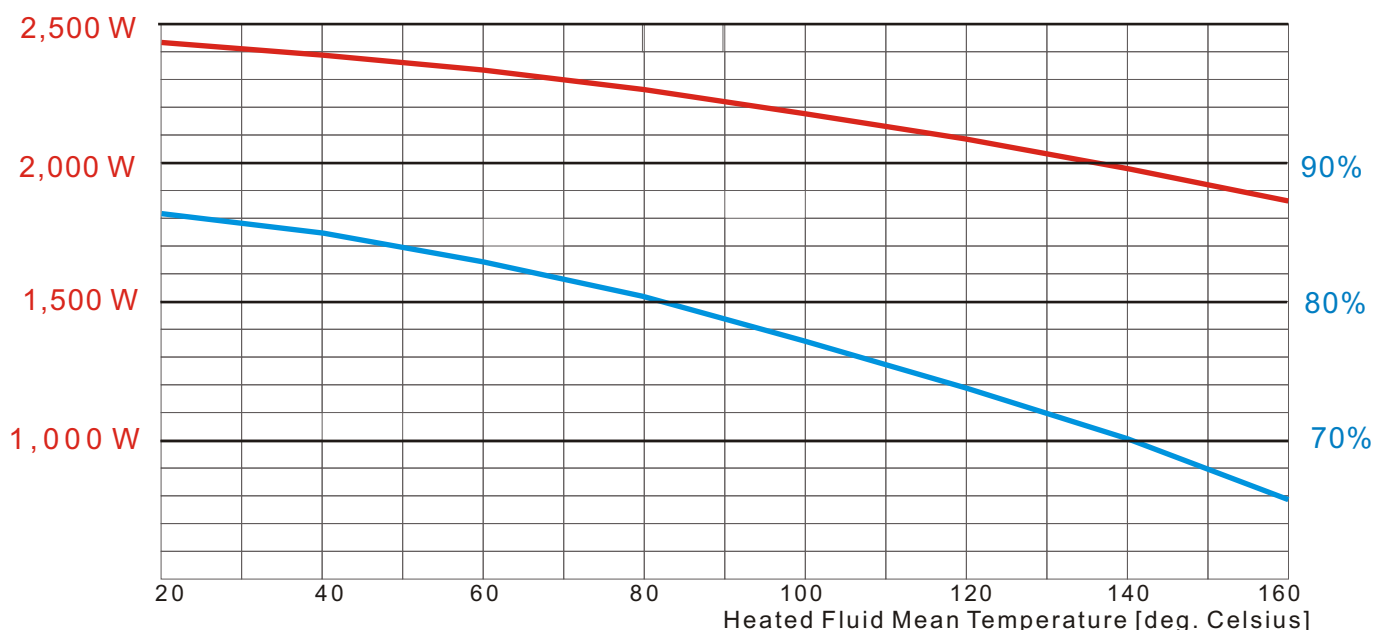
- ◆ Greenland Systems GLX-100 Solar Collector provides the highest thermal performance of any non-concentrated type solar collector available currently.
- ◆ High Temperature operating range (180 degC permanently) of GLX-100 is similar to a 1:10-ratio miniature concentration & tracking solar devices offered by various suppliers.
- ◆ Yet the Greenland Systems GLX-100 has no moving parts, is immune to all but most extreme winds, snow and hail, it does not require maintenance and it will perform flawlessly and with same efficiency under both direct and diffused solar irradiation, whereas the concentrating collectors can only make use of the direct component of solar irradiation. This means more or less that the concentrators will only work under the clear blue sky. Bad luck if you and your thermal load do not reside in the middle of Sahara or in the Gobi desert, and if you rely on concentrating solar collectors for your solar heat supply.
- ◆ GLX-100 Solar Collector will continuously provide high temperature heat of up to 180 °C efficiently for the life of the system.

Application Possibilities of GLX-100:

- ◆ Thermal power supply to High Efficiency double-stage solar chillers
- ◆ Boiler feed water pre-heating
- ◆ Steam generation, sanitation processes, pharmaceutical industries
- ◆ Food Processing / Dairy Industries
- ◆ Abbatoirs
- ◆ Industrial heating, produce and drying processes
- ◆ Water Purification
- ◆ Commercial Laundries, Hospitality
- ◆ and countless high temperature applications

Greenland Systems Solar Collector GLX100-16 ("Orange Series")

Power Output and Collector Efficiency at normal irradiance of 1,000 W/m² and Tamb=20 degC



Test data source:

TZSB IZES Test report KT11_04 ISO

■ GLX100-16, Thermal Power Output [Watts]

■ GLX100-16, Efficiency [%] by absorber area