

Worldwide Temperature Control

Tricool Thermal have been working with a global manufacturer providing temperature control equipment for the manufacturing process of their wide range of solar panels. Tricool have completed projects all over the world including China, USA, Vietnam, Germany, Russia and the UK.

A Continuous Temperature Need

The global corporation uses a technique known as float glass production which is the manufacturing of glass in one continuous process. The raw materials are melted down together in a furnace at temperatures of up to 3000°C producing a liquid compound. This is then run along a continuous belt in which line beams maintain its temperature; gradually cooling as it goes.

If a beam were to breakdown, temperatures would fluctuate and the cost to rectify the situation and re-start the line beams would be millions. The production process must therefore be monitored continuously to ensure no faults arise.

Bespoke Build Temperature Control



Each unit was designed using CAD technology

Having analysed the customer's specific process requirements, each unit was designed using 3D CAD technology. Taking into consideration the customer's continuous temperature need and accurate control of the production processes, the units supplied by Tricool were bespoke built dual circuit oil heaters with capacities of 200kW- 400kW reaching temperatures of up to 260°C. The

dual circuit ensures continuous productivity even if a fault occurs; allowing the line beams to maintain their exact temperature.

These units are specifically designed to deliver consistent, very high temperatures with improved reliability. 18 different probes were fitted on the units to communicate with the customer's central computer system; monitoring for any faults 24/7.

100% Reliability

To ensure maximum productivity for the customer, each unit undergoes thorough testing within Tricool's test bay before it is delivered. Each part of the unit is tested to various different temperatures and conditions, continually monitoring the unit for any leaks. The test conditions were presented to the customer, when they visited Tricool's manufacturing site in Totton to conduct a factory acceptance test and were more than satisfied with the results.



Tricool's Test Rig

A Worldwide Supplier

Tricool have completed six installations for the customer worldwide, supplying 20 machines altogether. For every installation completed, Tricool visit their customer's site providing commissioning support to ensure the operation is fully functional.

Tricool are currently working with the customer to install oil skids at some of their other sites. Manufacturing Director, Dave Palmer comments on the installations:

“Tricool have designed and manufactured every unit specifically to cater for the customer’s unique requirements, providing technical and sales support 24/7.”

With the long-standing durability and performance of these units, Tricool continue to supply the customer with temperature control equipment for their global manufacturing operation.



A unit at Tricools manufacturing site

Leading Temperature Control Manufacturer

Tricool Thermal has 30 years experience providing market leading temperature control equipment for various industry applications.

With an experienced design team and technical engineers, Tricool have the capabilities to manufacture to exact specifications.

For further information on Tricool's products, call free on **0800 977 5709** or email **www.tricool.com**