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Environmental Test Equipment Specialists

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Applications

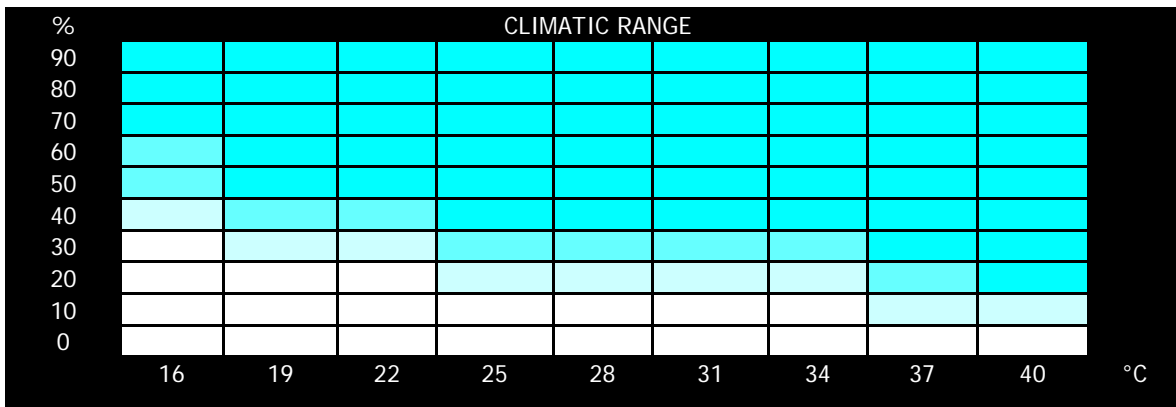
Designed to provide close control of temperature and humidity in an enclosed space, the SCG will provide the perfect climate for a wide range of applications.

In electronics manufacturing, processes such as adhesive or solder paste dispensing need to be carried out in closely controlled, stable conditions as part of the quality system to eliminate manufacturing defects. Instead of relying on controlling and maintaining the ambient factory climate, the SCG will ensure the perfect conditions inside the actual enclosures of the dispensing or screen printing machines.

In pharmaceutical laboratories testing of products or devices often has to be carried out in controlled climatic conditions to ensure quality and repeatability. SCG will ensure the perfect stable climate inside the test enclosure despite changes and fluctuations in the laboratory ambient.

Specifications

Temperature Range:	+15°C...+40°C
Humidity Range:	15%RH...90%RH (see graph below)
Cabinet External Dimensions:	800 x 500 x 650 mm (WDH)
Rate of Air Change:	approx 20 seconds for 2000 litre enclosure
Power supply:	230V / 50Hz / 13A



Construction

Comprising a seam-welded heat exchanger in stainless steel mounted on thermal breaks. The cabinet exterior is in mild steel sheet with a white painted finish (OEM colours are available).

A Pt100 sensor for temperature and a *Rotronic* capacitive sensor for humidity measurement and control will be mounted in the air supply to the enclosure.

Two protection devices will be installed; an over-temperature cut-out and a 'no-air' cut-out in the event of a fan failure or airway blockage; this will protect both the SCG and any products inside the enclosure.

An onboard, demineralised water tank will be installed with a manual top-up facility. The water recirculating system will be via a UV filter to eliminate any possibility of biological contamination. Heating is by way of electric heating elements, cooling by a single stage hermetically sealed refrigeration unit with air-cooled condenser.

Dehumidification is effected by condensing moisture onto a smooth refrigeration coil mounted above the drain. Control of heating, cooling and humidity will be by single set point PID controllers.

Options

- Bespoke Enclosure Design and Manufacturing
- Ultra Low Humidity (5%RH)
- OEM Applications

Proactive Test Solutions Ltd

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