

Thermotron Environmental Chamber



Stock Code: OY2020

Manufacturer: Thermotron

Model: SM 16 CE

Year of Manufacture: 1993

Serial: 21832 - S

New or Used: Used (Second Hand)

Internal Size (WxDxH mm): 760 x 760 x 760

Max Temp: -70°C - +180°C

Other Info: Cool Rate 2.5°C/min Heat Rate 4.5°C/min

Weight: 750

External Dimensions (WxDxH): 1350 x 1600 x 2000

Thermotron SM-16 Thermal Climatic Test Chamber

When extreme temperature testing is required, the Thermotron SM-16 Test chamber offers ultimate flexibility

Typical applications include metallurgical conditioning and extreme durability testing, automotive temperature, as well as corrosion testing and electronic PCB burn in etc.



Home > Ovens & Furnaces Laboratory & Bench Top Ovens >

Thermotron Environmental Chamber

The chamber comprises a 453 litre stainless steel inner chamber, fully seam welded, enclosed in a mild steel outer shell. Between the two is a layer of mineral fibre and foam insulation.

A fully-hermetic air cooled refrigeration system is used to lower the temperature of the inner chamber, the refrigerant being passed through a finned evaporator coil located at the rear of the chamber behind an air baffle system.

The refrigeration plant is located in the lower compartment of the chamber and exhausts warm air to the BACK of the machine.

Heating of the chamber is effected by inconel sheathed heater elements located behind the baffle system.

Air flow is achieved using a single motor driven fan

Technical specification for the Thermotron SM-16 Thermal Climatic Test Chamber

Volume litres 453 Chamber Dimensions (w x d x h) 760 x 760 x 760 External Dimensions Width (w x d x h) 1140 x 1500 x 2060 Temperature range °C Maximum °C: -70 to +180 deg Temperature uniformity +/- 0.3°C Temperature control tolerance +/- 0.3°C Cooling temperature range: +180°C to -68°C Heating temperature range: +23°C - +175°C Humidity Range: 10% to 98% Relative Humidity Dew point Temp Range: +7°C to +94°C Dry Bulb Temp Range: +7°C to +95°C Humidity variance: +/- 2.5% Relative Humidity Maximum heat load: 1800 Watts Power Supply volts: 230 volts single phase amps 13 Type - free standing Weight kg approx. 397

Please note that this machine does not have a separate 'humidity phase' as some customers require.

Please see service report attached.

This machine is supplied with a full Operational manual including installation, service and programming procedures

View Thermotron Environmental Chamber on our web site at
<https://www.rileysurfaceworld.co.uk/machines/29506.htm>

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.