

## Thermotron Environmental Chamber



|                                |                            |
|--------------------------------|----------------------------|
| Stock No                       | <a href="#">OY2023</a>     |
| Manufacturer                   | <a href="#">Thermotron</a> |
| Model                          | S8 CE                      |
| Year of Manufacture            | 1998                       |
| Serial                         | 27724                      |
| Condition                      | From a working environment |
| Internal Size (WxDxH mm)       | 610 x 610 x 610            |
| Max Temp                       | -70°C to +180°C            |
| Other Info                     | Full Service History       |
| Weight (kgs)                   | 382                        |
| External Dimensions (WxDxH mm) | 1070 x 1200 x 1900         |

### Description

Thermotron SM-8 Thermal Climatic Test Chamber

When extreme temperature testing is required, the Design Environmental 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.

The chamber comprises a 277 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-8 Environmental Test Chamber

- Volume litres 277
- Chamber Dimensions (w x d x h) 610 x 610 x 610
- External Dimensions Width (w x d x h) 890 x 1240 x 1950
- 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
- Maximum heat load: 500 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.

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

***R23 is a HFC, used as a replacement for R13 and R503 in very low temperature refrigeration. ... R23 is most commonly used in cascade systems at an evaporating temperature of -60° to -100° and at a condensing temperature of approximately -10°C to -40°C.***

**Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.**