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FS 692501



10354

TH-2700 Environmental Chamber Tensile and Universal Testing Machines

Temperature Chamber for materials testing machines



***Suitable for a huge range of materials and tests.**



Temperature Chamber - Features

- **Advanced Engineering and Fabrication Quality from German Manufacturer.**

The TH-2700 is fabricated from durable stainless steel with a professional brushed finish, forced air circulation, Teflon guide tubes for pullrod holes, self-turning PID temperature controllers and high heat-up & cool speeds.

- **Affordable.**

Best of all, the TH Series is economically priced.

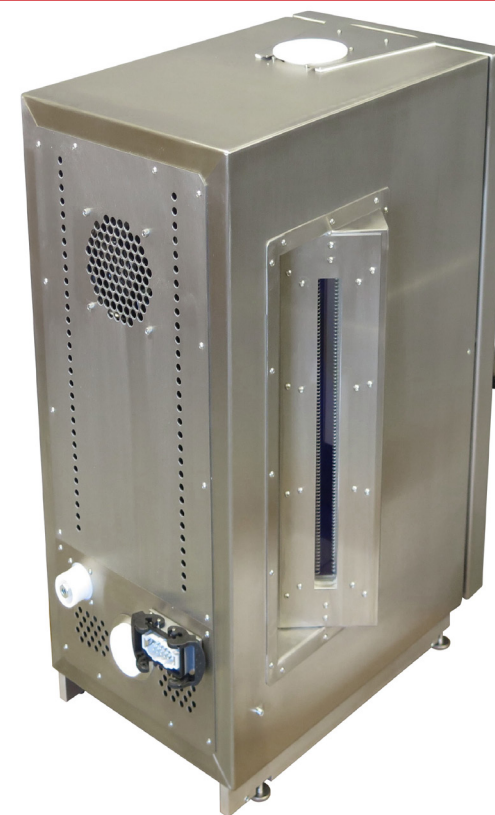
- **Expandable: Industry-Leading Features & Options:**

Wide temperature control range, front door contains four glass panes, optional removable inserts to enable the chamber to be moved while grips and pullrods are in place, optional door lights and interior lights; other cabinet dimensions also available along with other temperature control ranges.

- **Standard Dimensions:** Internal Width 8.75" x Depth 8.75" x Height 22.75"
External Width 14.25" x Depth 19.00" x Height 30.25"

*** Chambers can be manufactured to any size and shape!**

Specifications	Model TH-2700
Mode of operation	Off-line testing/ lab use with Tensile or Universal Tester
Materials	Sheet materials, plastics, metals, building products
Construction	Fabricated from stainless steel with brushed finish
Power rating	Heating power: 2300 W (220 Volt)
Control Temperature Range	Range of temperature -70+°C + 280°C Optional temperature range -180°C to 450°C
Temperature Control Accuracy	±0.2°C accuracy at 4°C setpoint ±0.5°C accuracy at 65°C setpoint ±3°C accuracy at -80°C or at +280°C
Features	<p>Forced Air circulation</p> <p>Front door contains 4 glass panes in between inner glass panes heating coils are fitted to prevent frosting of glass</p> <p>Pullrod hole has a Teflon guide tube, external as standard. (Internal guide tube optional)</p> <p>Sika self-tuning PID Temperature Controller with 0.1°C resolution (optional Omron RS-232 serial or Eurotherm RS-485)</p> <p>External Frame able to move Chamber 24 inch (610 mm) away from the tensile tester. Frame supported by adjustable feet. Chamber slide runs on bearings.</p>
Temperature Sensor	PT 100 temperature sensor (RTD)
Control Console	19" Rack-mountable Control Console with 4m Cable
Heat-up Speed	15°C/Minute (from 20 to 80°C without grips fitted)



Cooling Method:

Cooling requires liquid nitrogen, controlled by magnetic valve on rear of chamber. To reduce temperature to -80°C, 4 kg liquid nitrogen required. To maintain -80°C, 0.5 kg liquid nitrogen per hour required. **Optional compressor cooling available.**

Options:

- Removable insert system to enable chamber to be moved into / out-of position while grips and pull rods are attached.
- Bushings available to reduce through-hole to a smaller diameter for Pull rods.
- Optional internal chamber light. Door light (alternative to heating coils).
- Versions of chambers with special dimensions and special temperature ranges.
- Temperature Regulator with RS-232. Or Temperature Regulator with RS-485.
- Long slot in rear of Chamber for Extensometer.
- Compressor cooling available.

*Special Chambers Manufactured:



***Standard Chamber Drawings (Custom sizes and shapes available)**

