

Model TH-2700 Environmental Chamber for MT Series Tensile and Universal Testers

Full-Featured Temperature Chamber for Film, Sheet, Plastics

In the past, packaging and plastics producers & converters have had the choice of temperature chambers which were either OEM supplied integrated systems, or expensive computer-operated machines. Now you can have the best of all worlds in a single instrument. Oakland Instrument offers the TH Series, a simple to use, stand-alone or integrated temperature chamber, with optional removable inserts, slide-frames to move chamber into/out-of position on your tester, rack-mountable console, optional internal lights, and slots in the rear of the chamber for extensometers.

The Oakland Advantage

Meets ASTM and TAPPI

Meets specifications of ASTM D 1970 "Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials", and other ASTM and TAPPI standards.

Advanced Technical Features in Each Model

Advanced Engineering and Fabrication Quality

The TH-2700 is fabricated from durable stainless steel with a professional brushed finish, forced air circulation, teflon guide tubes for pullrod holes, self-tuning PID temperature controllers, and high heat-up 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 available as well as other temperature control ranges. Contact your local Oakland sales representative for details.



The Model TH-2700 Environmental Chamber for Tensile Testers

Oakland Instrument Corp.

Oakland Instrument specializes in the design, manufacture and distribution of test, measurement and control systems for the film, plastics, packaging, and paper industries.

Customer-Driven

We team with our customers to help them solve their quality- and process-control problems.

Technology-Based

Our applications knowledge and engineering depth allow us to offer both standard and custom systems based on industry-leading technology.



Specifications

Mode of operation:	Off-line testing / lab use with Tensile or Universal Tester
Materials:	All film & sheet materials, rigid plastics
Construction:	Fabricated from stainless steel with brushed finish
Power Rating:	Heating power: 2300 W (220 Volt)
Control Temperature Range:	Range of temperature -80 degree C +280 degree C
Temperature Control Accuracy:	+/- 0.2 deg. C accuracy at 4 deg. C setpoint +/- 0.5 deg. C accuracy at 65 deg. C setpoint +/- 3 deg. C accuracy at -80 deg. C or at +280 deg. C
Features:	Forced Air circulation Front door contains 4 glass panes; in between inner glass panes heating coils are fitted to prevent frosting of glass Pullrod hole has a Teflon guide tube, external as standard (internal guide tube optional) Sika self-tuning PID Temperature Controller with 0.1 degree C resolution (optional Omron RS-232 serial or Eurotherm RS-485) 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.
Temperature Sensor:	PT 100 temperature sensor (RTD)
Control Console:	19" Rack-mountable Control Console with 4 m cable
Heat-up Speed:	15 degree C / Minute (from 20 to 80 degree C without grips fitted)
Cooling Method:	Cooling requires liquid nitrogen, controlled by magnetic valve on rear of chamber. To reduce temperature to -80 deg. C, 4 kg liquid nitrogen required. To maintain at -80 deg. C, 0.5 kg liquid nitrogen per hour required
Standard Dimensions:	Internal: 8.75 in. W x 8.75 in. D x 22.75 in. H (220 mm Width x 220 mm Depth x 580 mm Height) External: 14.25 in. W x 19.00 in. D x 30.25 in. H (360 mm Width x 480 mm Depth x 766 mm Height)

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 Pullrods.

Optional internal chamber light. Door light (alternative to heating coils).

Versions of chambers with special dimensions and special temperature ranges. Contact factory for details.

Temperature Regulator with RS-232. Or Temperature Regulator with RS-485.

Long Slot in rear of Chamber for Extensometer.

Ordering Information

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