

LABORATORY CLIMATIC CONDITIONING CHAMBER

CLIMATEST



Humidity and temperature have a fundamental influence on material's behaviour.

Some physical properties of textiles are literally defined by its moisture content.

When laboratory conditions cannot meet mandatory standard requirements (ISO 139 or ASTM D1776) as regards constant temperature and humidity, and cannot ensure their stability, a climatic chamber is the perfect solution.

CLIMATEST, code 1722, is used to condition all kinds of textiles (fibres, yarns, fabrics, garments) based on textile testing methods, even for trials which require very specific testing conditions (for instance RH 50%, in some cases even lower) that a standard conditioned laboratory cannot match.

CLIMATEST CODE 1722

Technical features

- External structure in steel, painted with anti-acid epoxy product.
- Equipped with chiller unit (eco-friendly).
- Double insulation door with silicone seal, to prevent heat loss.
- Thermal insulated structure with Polyurethane.
- External door equipped internally with glass for an easy inspection.
- 2 steel shelves (included), adjustable in height. More shelves available (optional) up to a total of max. 11.
- Internal ventilation for further temperature stabilization.
- Temperature control by means of a thermostat; digital P.I.D. programmer with auto-tuning function, to ensure good stability.
- Temperature range: from +8°C to +80°C; precision: $\pm 0,5^{\circ}\text{C}$ (only with the following ambient working conditions: from +18°C to +35°C and from 30% to 70% RH). Maximum altitude: 3000 mt.
- Humidity range: from 20% to 90% RH; precision: $\pm 2\%$ of RH% (only with the following ambient working conditions: from +18°C to +35°C and from 30% to 70% RH). Maximum altitude: 3000 mt.
- Display resolution: $\pm 0,1^{\circ}\text{C}$ - 1% RH.
- For further protection, the instrument is equipped with a safety thermostat with visual alarm and manual reset.
- Automatic water inlet (from mains) into the tank.
- Rear drain of excessive water.
- Temperature protection: class 2, according to DIN 12880.
- Controlled by a digital microprocessor with PID thermoregulation and auto-tuning function for the management and automatic adjustment of the humidity percentage (set point and real temperature measurement).
- The instrument's probe can be calibrated by means of a thermometer.
- Possible to program 8 set points and 8 stasis; Cyclical (or manual) program repetition.
- Programmable timer for each single stasis (from 0 to 9999 minutes) countdown - delayed start.



The diagram is an example of an operative area tested in ambient conditions +19.3°C and 60% RH. Attention: the operative area of Climatest doesn't cover all the areas within the minimum and maximum temperature and humidity range (grey area).

OPTIONAL

Water tank external source	Code 1722 10
Additional steel shelf	Code 251.250

REFERENCE STANDARDS

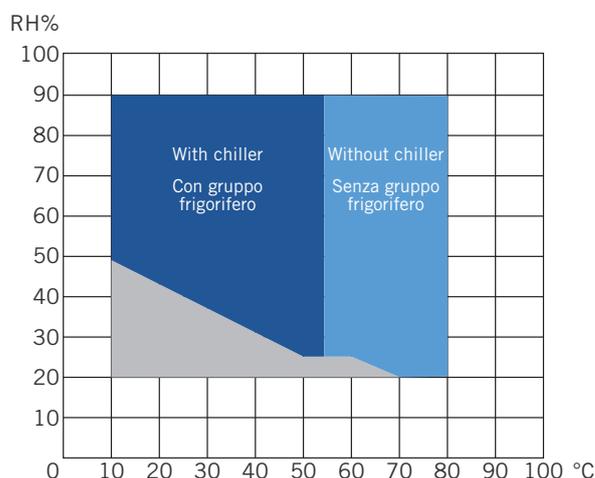
UNI EN ISO 139, ASTM D1776

DIMENSIONS

Weight: 120 kg
 Internal Dimensions: (L) 522 x (W) 593 x (H) 797 mm, Volume (nominal) 250 lt.
 External Dimensions: (L) 730 x (W) 956 x (H) 1392 mm

POWER SUPPLY

Power supply: 115 or 230 Vac, 50/60 Hz, (to be defined at order)
 Power consumption: 1650 W
 Power consumption, refrigeration to +5°C: 200 W



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