

## CLIMATIC CHAMBER

**STANDARDS: EN 1367-1, 12390-2, 12390-9, 196-1**

Designed for all the research and control laboratories to perform: cold and/or hot temperature measurement at controlled humidity conditions, any kind of freezing/thawing tests, accelerated curing tests.

Climatic Chamber is designed to simulate real climate conditions by controlling and changing temperature, humidity, night and day light cycles. Devices Temperature and humidity control range allows to make different kind of tests. Also stability, artificial aging, storage and shelf-life tests can be done with great controlled conditions.

Used to cure concrete (EN 12390-2) and cement specimens (EN 196-1) to analyze the behavior of aggregates to freezing and thawing tests (EN 1367-1).

The inner side of the device is made of stainless steel and outer side is made of electrostatically painted steel for long term of usage.

The powerful lamps protected by anti-humidity glass cover supplies day light to the samples.

Inner tempered glass door allows user to see the samples without disrupting the settled temperature and humidity values.

High density polyurethane injected between the inner chamber and outer wall for Insulation of the device.

**102** Humidity is supplied with a humidity generator and read from a humidity sensor inside the inner chamber. This allows accurate reading and control on the values.

Temperature is controlled with a PID system. Humidity and cooling systems are controlled proportionally.

Temperature safety is supplied with a safety thermostat.

The device is controlled and run from a touch screen 128x64 pixel LCD screen.

Powerful air circulation provides stabile temperature distribution even in low temperature and humidity settings. This also provides fast recovery time after door is opened and closed again.

It equipped with advanced microprocessor control system.

10 program can be saved to the system.

The device can be connected to a computer with a RS-232 cable which is supplied optionally.

The gas used for the cooler does not include CFC's.



### Technical Specifications

Product Code	LT-C0120	LT-C0121	LT-C0122
Product Name	Climatic Chamber		
Capacity	120	250	500
Working Temperature Range	-20 °C / +60 °C with 0 °C / +60 °C		
Temperature Range when Humidity system is on	10 °C / +60 °C		
Humidity Range	20% - 95% Rh		
Temperature Sensitivity	± 0.1 °C		
Intensity of Light	20.000 lux		
Timer	0 - 999 h 59 min + Indefinitely		
Humidity Sensitivity	1 % Rh		
Power Supply	220 V, 50-60 Hz, 1 ph		