



TEMPERATURE AND HUMIDITY TEST CHAMBER LTHC-B30

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Temperature and Humidity Test Chamber LTHC-B30 designed with 3150 L internal capacity volume. Structured with -40°C to 150°C temperature range, and 10% to 98% RH humidity range to stimulate constant temperature and humidity conditions for testing wide variety of products for their quality, performance, shelf life and stability. The front panel features LCD screen, separate indicator lamp meant for high and low water level, emergency stop button, water level indicator, besides design also offers stainless steel durable door with glass window, 02 pcs of adjustable stainless steel shelves, 1 pc of 100 mm diameter hole, castors at base for easy movement of the unit. A good temperature humidity chamber is essential for evaluating potential success or failure of a product in the field.

FEATURES

- Structured with -40°C to 150°C temperature range, and 10% to 98% RH humidity range
- Easy to use LCD touch screen controller and a graphic display to allow monitoring of the set and actual working parameters
- 304 stainless steel, rust-proof interior chamber material with mirror surface
- 02 pcs of adjustable stainless steel perforated shelves for good air circulation
- Standard 50 mm diameter test cable hole located on left side of the workroom with inside sleeve to prevent moisture, and soft silicone plug seal
- Double layer 8 cm insulating tempered glass window, prevents frosting, built-in LED light of work room helps in clear observation of sample through window
- PID microprocessor colour touch screen controller
- Good water circulation system, yearly replacement of filter
- Automatic water inlet, with 13.5 mm diameter, standard 2 meter drain
- High and low water level alarm, water shortage lights and sound
- A3 steel plate with galvanized coating
- Ethernet or PC link, USB to download test data, editing of 120 programs 100 segment
- Four casters with brakes, and adjustable height, for easy movement
- 10 cm thick polyurethane foam and insulation cotton for better performance

APPLICATIONS

Temperature and Humidity Test Chamber used in basic and advanced research, quality and stability testing across pharmaceutical and cosmetic industries, chemical industry, packaging industry, food and beverage industry.

SPECIFICATION

Model no.	LTHC-B30
Capacity	3150 L
Temperature range	-40°C to 150°C
Temperature cooling rate	1°C / min
Temperature heating rate	1°C / min
Temperature fluctuations	± 0.5°C
Temperature deviation	± 2.0°C
Heating Power	1000 W
Humidity range	10% to 98% RH
Humidity deviation	± 2.5 % RH
Cooling system	French TECUMSEH Compressor
	R449A, R508B Refrigerant
	Mechanical compression refrigeration system
Heating Element	Nichrome Wire
Display	PID Touch color LCD screen controller
Humidity	Automatic water supply, water purification system
	Humidification: Stainless steel surface evaporation humidifier, external evaporation
	Dehumidification: Evaporator
Temperature sensor	PT-100 platinum resistance, A class, Temperature sensor
Humidity sensor	Dry and wet bulb sensor
Built-in water tank	270×300×450 mm
View window size	330×370 mm
Air circulation	Centrifugal wind fan
Thermal insulation	10 cm Polyurethane foam and insulation cotton
Exterior Material	Steel plate with protective coating
Interior Material	SUS304 stainless steel
Standard configuration	1 cable hole (50 mm diameter) with plug, 02 adjustable shelves

Power supply	380 V, 50 Hz
Maximum Noise	65 dBA
External Environmental condition	5°C to 35°C, ≤ 85% RH
Internal dimension (D×W×H)	1500×1500×1400 mm
Overall dimension (D×W×H)	2050×2050×2350 mm

STANDARD ACCESSORIES

- Wet wick for humidity sensor- 1 pc
- Relay- 2 pc
- PT-100 Temperature sensor- 2 pc
- High and low water level float- 2 pcs
- Heating tube- 1 pc