



# Temperature and Humidity Test Chamber



## TEMPERATURE AND HUMIDITY TEST CHAMBER LTHC-A1 SERIES

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We manufacture superior quality, large walk-in temperature and humidity chamber that create a constant and uniform environment for large quantity of test products. LTHC- A1 Series is particularly bench top type and designed in capacity of 50 litres and 80 litres.

### Features

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- Safety devices includes high and low pressure protective switch, high current and high humidity temperature protective switches
- Bench top type
- Controlling Operations through color, touch screen display
- Internal chamber is of SUS304 stainless steel while external is of stainless steel
- Incorporated with PC link software, R-232 /R-485 interface
- Nichrome electronic heating system
- Provides function of automatic water supply with build-in water reservoir
- Auto refrigeration system installed which starts cooling automatically at high temperature



### Application:

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It is used in various industries such as food, medical, aerospace, chemicals, metallurgy, clinical and life science research.

## TEMPERATURE AND HUMIDITY TEST CHAMBER LTHC-A1 SERIES

### Technical Parameters:

Model	LTHC-A10	LTHC-A11
Capacity	50L	80L
Temperature range	-20°C ~ +150 °C	
Environmental conditional	5°C ~ +40 °C ≤85% RH	
Temperature fluctuations	± 0.5 °C	
Temperature deviation	± 2.0 °C	
Humidity deviation	± 2.5% RH	
Low type	I: -40°C II:-70°C	
Humidity range	20% ~ 98% RH	
Heating rate	3 °C / min	
Cooling rate	1 °C / min	
Temperature Sensor	PTR Platinum Resistance PT100Ω/MV A-class	
Temperature Resolution	± 0.001 °C	
Humidity sensor	Dry and wet bulb sensor	
Humidity Resolution	± 1%RH	
Internal dimension	320 × 350 × 450 mm	400 × 400 × 500 mm
Overall dimension	800 × 1050 × 950 mm	900 × 1100 × 1000 mm
Power Supply	AC220V 50HZ	

# TEMPERATURE AND HUMIDITY TEST CHAMBER LTHC-B1 SERIES

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This model of Temperature and Humidity Test Chamber LTHC-B1 series is specifically design to test the samples for their heat, cold, dry and moisture resistance. This machine is portable, standard type and available in range of 100 Litres to 1000 Litres.

## Features

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- Protection against leakage and over-loading, overheating, over-temperature
- Safety devices includes high and low pressure protective switch, high current and high humidity temperature protective switches
- Controlling Operations through color, touch screen display
- Internal chamber is of SUS304 stainless steel while external is of stainless steel
- Incorporated with PC link software, R-232 /R-485 interface
- Nichrome electronic heating system
- Provides function of automatic water supply with build-in water reservoir
- Auto refrigeration system installed which starts cooling automatically at high temperature
- Equipped with LCD touch screen with user friendly interface
- Advanced refrigeration and control system



## Application:

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It is used in various industries such as food, medical, aerospace, chemicals, metallurgy, clinical and life science research.

## TEMPERATURE AND HUMIDITY TEST CHAMBER LTHC-B1 SERIES

### Technical Parameters:

Model	LTHC-B10	LTHC-B11	LTHC-B12	LTHC-B13	LTHC-B14
Capacity	100L	225L	500L	800L	1000L
Temperature range	-20°C to +150°C/-40°C to +150 °C/ -70°C to +150°C				
Temperature fluctuations	± 0.5 °C				
Temperature deviation	± 2.0°C				
Humidity deviation	± 2.5% RH				
Humidity range	20% ~ 98% R.H				
Heating rate	3 °C / min				
Cooling rate	1 °C / min				
Internal dimension (mm)	400*500*500	500*600*750	700*800*900	800*1000*1000	1000*1000*1000
Overall dimension (mm)	860*1050*1620	960*1150*1860	1180*1350*2010	1280*1550*2110	1500*1550*2110

## TEMPERATURE AND HUMIDITY TEST CHAMBER LTHC-B2 SERIES

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This model of Temperature and Humidity Test Chamber LTHC-B2 series is specifically design to test the samples for their heat, cold, dry and moisture resistance. This machine is portable, standard type and available in range of 100 Litres to 1000 Litres.

### Features

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- Protection against leakage and over-loading, overheating, over-temperature
- Safety devices includes high and low pressure protective switch, high current and high humidity temperature protective switches
- Controlling Operations through color, touch screen display
- Internal chamber is of SUS304 stainless steel while external is of stainless steel
- Incorporated with PC link software, R-232 /R-485 interface
- Nichrome electronic heating system
- Provides function of automatic water supply with build-in water reservoir
- Auto refrigeration system installed which starts cooling automatically at high temperature
- Equipped with LCD touch screen with user friendly interface
- Advanced refrigeration and control system



### Application:

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It is used in various industries such as food, medical, aerospace, chemicals, metallurgy, clinical and life science research.

## TEMPERATURE AND HUMIDITY TEST CHAMBER LTHC-B2 SERIES

### Technical Parameters:

Model	LTHC-B20	LTHC-B21	LTHC-B22	LTHC-B23	LTHC-B24
Capacity	100L	225L	500L	800L	1000L
Temperature range	-70 to 150°C				
Temperature fluctuations	± 0.5 °C				
Temperature deviation	± 2.0 °C				
Humidity deviation	± 2.5% RH				
Humidity range	20% ~ 98% R.H				
Heating rate	3°C / min				
Cooling rate	5°C / min				
Internal dimension (mm)	400*500*500	500*600*750	700*800*900	800*1000*1000	1000*1000*1000
Overall dimension (mm)	860*1050*1620	960*1150*1860	1180*1350*2010	1280*1550*2110	1500*1550*2110