

Temperature & Humidity Chamber

Refrigerated (10-90%RH) • (+10°C to 60°C)

Serving the Scientific, Medical and Research industries since 1945

LABEC

LABEC Temperature and Humidity Chambers are manufactured in Australia with high control systems and quality stainless steel for easy maintenance and excellent durability. Ideal for laboratory testing and research where accurate control of the Temperature and Relative Humidity is required.

Temperature and humidity

Suitable for environmental testing applications, environmental conditions can be accurately reproduced and controlled. A air flow system combined with the heating system with submerged elements provides excellent temperature uniformity with fluctuation $\pm 1^{\circ}\text{C}$ and relative humidity fluctuation $\pm 3\%$.

Relative humidity

Relative Humidity is achieved using the internal water trough for humidification and refrigeration system for active dehumidification. Water supply is automatically kept full using mains pressure or tank water fed via gravity. The unit can also be used for temperature only and the humidity system switched off. Humidity display is in clear digital display on the front screen next to the temperature display.



Model LHC-36



PID Control display system

Controller – The digital microprocessor based PID temperature controller controls the temperature within the range +10°C to 60°C (optional 80°C) and humidity (temperature dependent) within the range of 10% to 90% RH (optional 95% RH).

Data logging

When optioned the controller can be connected via RS232/RS485 communication ports which can be connected directly to a data logger or computer to collect this information. Software is available for monitoring and temperature control.

Additional options

To suit your requirements the addition of options such as inner wall lighting, safety toughened glass viewing window for easy viewing, programmable controllers, timers and cable access ports are also available.



Laboratory Equipment Pty Ltd

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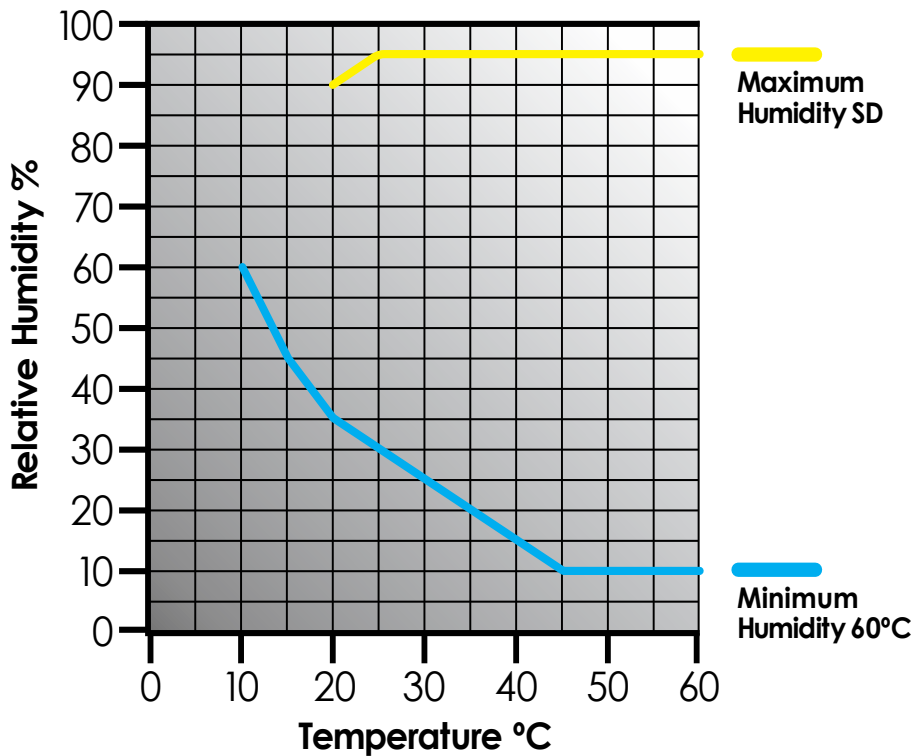
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Features include:

- RCD/ELB (earth leakage breaker).
- Over Temperature Thermostat.
- 316 grade Stainless Steel interior.
- Stainless Steel exterior.
- Lights separated from chamber.
- Diurnal control system.
- Precise control of temperature & humidity.
- Digital indication of internal temperature and set values.
- Quiet running CFC free refrigeration system.
- Monitoring or cable point access port.
- Fully adjustable open wire shelves.
- Fitted with castors to allow for easy moving.



Humiture chart which illustrates the relationship of temperature and humidity within the chamber

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SPECIFICATIONS

Temperature & Humidity Chamber Refrigerated (10-90%RH) • (+10°C to 60°C)

Model	LHC-24	LHC-36	LHC-50	LHC-80
Capacity (litres)	160	300	460	820
Int. Dim. (cm) H x W x D	61 x 51 x 50	100 x 61 x 51	110 x 65 x 65	120 x 115 x 65
Ext. Dim. (cm) H x W x D	136 x 65 x 75	175 x 75 x 75	192 x 80 x 90	192 x 145 x 90
Temp. Controller	Digital Microprocessor PID Controller			
Humidity Controller	Digital Microprocessor PID Controller			
Humidity Range (Temperature Dependent)	10-90% RH (optional 95%)			
Humidity Sensor	Vaisala			
Humidity Fluctuation	+/- 3% RH			
Temp. Min	10°C			
Temp. Max	60°C (Optional 80°C)			
Temp. Setting Accuracy	0.1°C			
Temp. Fluctuation	+/- 1°C			
Temp. Sensor	Pt 100 ohms			
Heating System	Electric Element			
Refrigerant	R134c (CFC Free)			
Interior Material	Stainless Steel 316 grade			
Exterior Material	Stainless Steel			
Shelving (adjustable)	2	3	3	8
Safety Features	Over temperature alarm, temperature protection cut off, earth leakage breaker (ELB)			
Options	Chart recorder, programmable controller, timer, inner glass doors, cable entry port, additional shelves, extended temperature and humidity range			
Power Supply	240V /10AMPS	240V /15 AMPS		
Power (W)	2400	3000	3500	3600
Weight (kg)	129	139	169	209

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