

TEMPERATURE AND HUMIDITY CHAMBER AMBIENT (+5°C to 80°C & 30-90% RH)

LABEC Temperature and Humidity Chambers

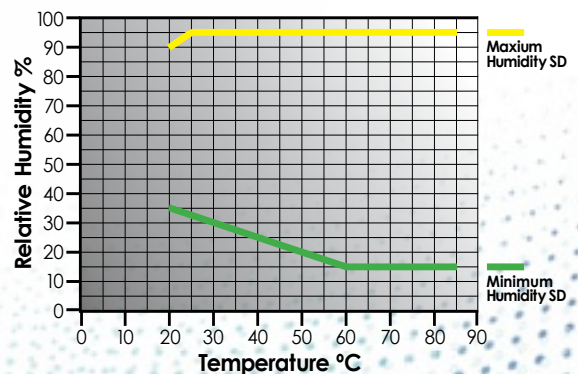
are manufactured in Australia with high control systems and quality stainless steel for easy maintenance and excellent durability. Ideal for laboratory testing and research where accurate control of the Temperature and Relative Humidity is required.

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 +/-1°C and relative humidity fluctuation +/-2%. The digital microprocessor based PID temperature controller controls the temperature within the range Ambient +5°C to 80°C and humidity (temperature dependent) within the range 30% to 90% RH.

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.

When optioned the controller can be connected via RS232/RS458 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.

To suit your functionality 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.



OTHER STANDARD FEATURES INCLUDE:

- RCD/ ELB (earth leakage breaker)
- Over Temperature Thermostat
- Stainless Steel exterior
- Adjustable/removable shelving



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SPECIFICATIONS

TEMPERATURE AND HUMIDITY CHAMBER AMBIENT (+5°C to 80°C & 30-90% RH)

Model	HC-24	HC-36	HC-50	HC-80
Capacity (litres)	160	300	460	820
Int. Dim. (cm) H x W x D	81 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	30-80% RH			
Humidity Sensor	Vaisala			
Humidity Fluctuation	+/- 2% RH			
Temp. Min	Ambient+5°C			
Temp. Max	80°C			
Temp. Setting Accuracy	0.1°C			
Temp. Fluctuation	+/- 1°C			
Temp. Sensor	Pt 100 ohms			
Heating System	Electric Element			
Interior Material	Stainless Steel			
Exterior Material	Stainless Steel			
Shelving (adjustable)	2		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, refrigerated model: see LHC range.			
Power Supply	240 V/10 AMPS		240 V /15AMPS	
Power (Watts)	2400W		3600W	
Weight (kg)	109	130	149	199

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