

PLANT GROWTH CHAMBER

(+5°C lights on / +10°C lights off to +50°C)

LABEC Plant Growth Chambers are fitted with internal lights and are manufactured in Australia with high quality stainless steel for easy maintenance and excellent durability. Suitable for applications such as plant germination and culture growth or where refrigeration, heating and diurnal control is required.

Labec's Plant Growth Chamber environmental conditions can be accurately reproduced and controlled using a dynamic air flow system and unique heating system with elements bonded to the walls provides excellent temperature uniformity and a digital microprocessor based PID temperature controller controls the temperature within the range +5°C Lights OFF / +10°C Lights ON to +50°C and has, Diurnal control with a Day/Night simulation feature.

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 programming and monitoring.

A range of lighting configurations to suit your applications is available. Lighting can be door lighting, wall lighting, or on each shelf. The shelf lighting provides High light intensity, >90 micromoles centre of each shelf with the option available of white aluminum interior for high reflectivity.

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



Shelf Lighting model shown above



PG120 model shown above

OTHER STANDARD FEATURES INCLUDE:

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

Serving the Scientific, Medical and Research industries since 1945

LABEC

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SPECIFICATIONS

PLANT GROWTH CHAMBER (+5°C lights on / +10°C lights off to +50°C)

Model	PG18	PG24	PG36	PG50	PG75	PG120
Capacity (litres)	66	160	300	500	750	1200
Int. Dim. (cm) H x W x D	46 x 38 x 38	60 x 50 x 50	90 x 60 x 50	120 x 65 x 65	130 x 100 x 60	135 x 145 x 155
Ext. Dim. (cm) H x W x D	126 x 52 x 68	136 x 61 x 80	175 x 76 x 80	220 x 78 x 92	210 x 112 x 78	210 x 155 x 78
Temp. Controller	Digital PID Controller					
Temp. Min	+5°C Lights OFF / C9+A1+10°C with lights ON					
Temp. Max	50°C					
Temp. Setting Accuracy	+/- 1°C					
Temp. Fluctuation	+/- 0.2°C					
Temp. Sensor	Pt100ohms					
Heating System	Electric Element					
Refrigerant	R134a (CFC Free)					
Interior Material	Stainless Steel					
Exterior Material	Stainless Steel					
Shelves	2		3	6	8	
Standard Wall Lighting (Watts)	2 x 18W		2 x 36W	3 x 36W	6 x 36W	8 x 36W
Options	Glass viewing windows, castors, cable entry port, programmable temperature profiler, additional shelves, various lighting configurations to suit your applications (doors, walls, each shelf), data logger, chart recorder.					
Safety Features	Over temperature alarm, Temperature protection cut off, Earth leakage breaker (ELB).					
Power (W)	240V/50Hz					
Weight (kg)	85	102	135	155	195	210

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