

# Plant Growth Chamber

(+5°C lights OFF / +10°C lights ON to +50°C)

**LABEC Plant Growth Chambers** are fitted with internal lights and are manufactured in Australia with high quality 304 grade 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 in a single chamber.

### Features include:

- RCD/ ELB (earth leakage breaker).
- Over Temperature Thermostat.
- Stainless Steel exterior.
- Adjustable/removable shelving.
- Lockable castors.
- Magnetic door seals.



**Model PG36**  
With door and wall lights.



**Controller** – With Labec Plant Growth Chambers, environmental conditions can be accurately reproduced and controlled with our dynamic air flow system and unique heating system. They provide excellent temperature uniformity using a digital microprocessor based PID temperature controller which controls the temperature within the range 5°C Lights OFF / 10°C Lights ON up to +50°C and Day/Night simulation features.

**OPTIONAL:** 7" touch screen LCD USB data logging controller.

Optional viewing door available on all models to view samples without affecting temperature.



Serving the Scientific, Medical and Research industries since 1945

**LABEC**



Laboratory Equipment Pty Ltd

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email: [sales@labec.com.au](mailto:sales@labec.com.au)

Ph: 02 9560 2811 • Fax: 02 9560 6131

[www.labec.com.au](http://www.labec.com.au)

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## 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 log chamber information. Software is available for programming and monitoring.



Chamber with shelf lighting.



**Lighting** – 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 aluminium interior for high reflectivity. Labec chambers can now be supplied with T5 fluorescent lights in standard, marinestar, aquastar or grolux lights for different applications. The T5 lights use electronic ballasts which give a ¼ more output than the standard T8 tubes.

**Additional options** – To suit your requirements the addition of options such as 7" touch screen LCD USB data logging controller, safety toughened glass viewing window for easy viewing, programmable controllers, timers and cable access ports are also available.



Chamber with a mixture of T5 Aquastar and Marinestar light banks.

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# SPECIFICATIONS

## Plant Growth Chamber (+5°C lights OFF / +10°C lights ON 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 60
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 87	210 x 155 x 87
Temp. Controller	Digital PID Controller					
Temp. Min	+5°C Lights OFF / +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



**Model PG120**  
With rear wall lights and white interior.



**Model PG50-SL\WL**  
Single door with wall and shelf lighting.

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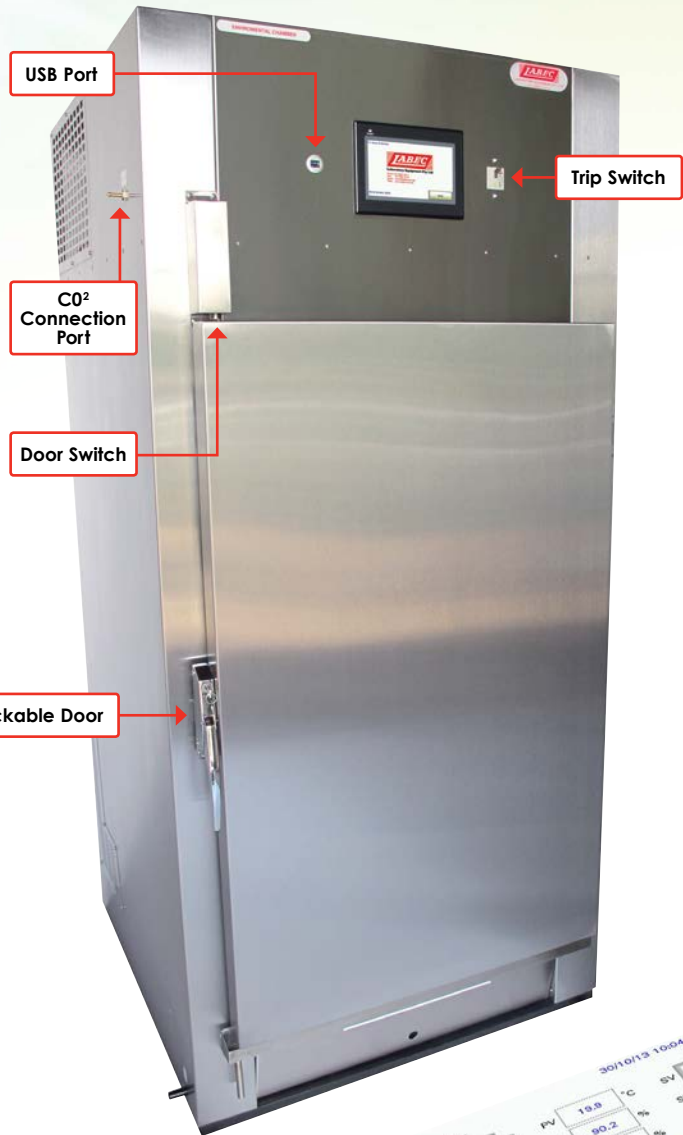
# Optional Carbon Dioxide (CO<sub>2</sub>)

To achieve accurate plant reproduction Labec chambers are designed for optimum performance.

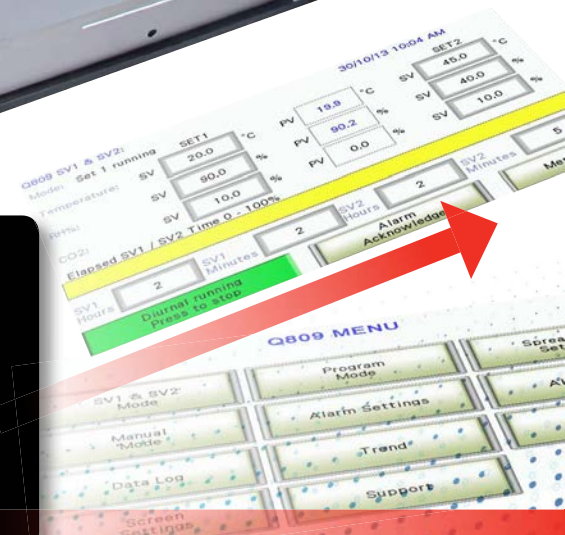
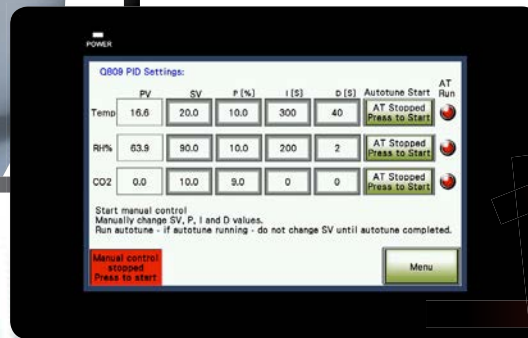
Labec optional Carbon Dioxide (CO<sub>2</sub>) control system is built into the touch screen controller. With advanced PID and auto-tune controls accurate CO<sub>2</sub> can be achieved with concentration levels up to 3000ppm with ±50ppm accuracy.

The controller allows advance parameters and diagnostics of the system. The user can control all stages of the growth with pre-programmed settings and alarm functions.

Downloading the datalog results is easy with the front USB port.



Key Lockable Door



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