



PLANT GROWTH CHAMBER

Plant Growth Chamber LPGC-100 series

Labocon Plant Growth Chamber LPGC-100 Series are designed with constant temperature and humidity for excellent controlled growth of plants. It can simulate high light intensities, which fulfils the light requirements of sample plants. With all these features it enables you to maintain required growth conditions for plant growth.



Features:

- Mirror finished stainless steel interior and cold-rolling steel with static spray plastics exterior
- Double door with inner door made of glass and outer door made of steel plate
- Test holes equipped on both sides with internal diameter of 30 mm and external diameter of 60 mm
- Forced Air Circulation system by low-noise centrifugal fan ensures temperature uniformity
- 3-side illumination can be adjusted in six steps
- Humidification by finned heating tube and large capacity water tank
- Microcomputer intelligent control with LCD display for temperature, time and illumination
- Environment efficient, energy-saving CFC-free refrigerant
- Durable refrigeration system with multiple, self-checking, auto-defrosting and safe operation avoids temperature influence
- Audio visual alarm for water level control and over temperature control
- Data can be stored and recovered on power or system failure
- Programmable design can set 30 segments
- RS485 interface
- Optional
 - Shelf
 - Preset function
 - Temperature limit switch
 - Charging port
 - Printer

Application:

Labocon Plant Growth Chamber is used for microorganism cultivation and preservation, plant growth, seed germination, tissue cultivation, environmental protection and forestry, agriculture and research institutes.

Plant Growth Chamber LPGC-100 series

Specification:

Model	LPGC-101	LPGC-102	LPGC-103	LPGC-104
Capacity	250 L	300 L	400 L	800 L
Temp. Range	0-65°C (Light off), 10-65°C (Light on) 10-65°C (With Humidity)			
Temp. Uniformity	±1.5°C	±2°C		
Temp. Fluctuation	±1°C			
Temp. Resolution	0.1°C			
Humidity Range	60-90 %RH			
Humidity Uniformity	±5%RH			
Humidity Fluctuation	±5%RH			
CO ₂ Function	None			
Illumination Range	0-15000 Lux			
Control Steps	6 Steps			
Fluorescent Lamps	30Wx14EA			30Wx18EA
Sensor	Pt 100Ω			
Timer	0-9999 min			
Shelves	4			6
Load per Shelf	15 kg			
Inner Dimension	480x480x1100 mm	540x520x1100 mm	560x620x1160 mm	1220x585x1123 mm
Overall Dimension	692x685x1587 mm	740x729x1737 mm	742x730x1887 mm	1631x896x1838 mm
Power	1300 W		1500 W	4380 W
Power Supply	220 V, 60 Hz			
Weight (Net/Gross)	162/185 kg	230/250 kg	250/274 kg	411/467 kg
Catalog No.	9201101127	9201102127	9201103127	9201104127

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Labocon Plant Growth Chamber CO2 Back up Series



Plant Growth Chamber with CO2

Labocon Plant Growth Chamber with CO2 Back up Series is designed with variable temperature, CO2, humidity and Lighting Intensity for controlled growth of plants. It can simulate high light intensities which fulfils the light requirements of sample plants. With all these features it enables you to maintain required growth conditions for plant growth.

Features

- Microprocessor controller for temperature and humidity and light intensity, 30 programs
- Large LCD screen
- Simulate changing temperature and light in day/night
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- R134a refrigerant, two imported compressors, continuous running time
- Independent temperature-limiting alarm system ensures experiments run safely. (Optional)
- RS485 connector is option which can connect computer to record the parameters and the variations of temperature. (Optional)

Optional

- RS485 connector



- CO2 inlet
- CO2 controller (imported IR CO2 sensor)

Application

Labocon Plant Growth Chamber is used for various application such as microorganism cultivation and preservation, plant growth, seed germination, tissue cultivation, environmental protection and forestry, agriculture and research institutes.

Specification: -

Non-Humidity control series:

Model	LPGC-T250	LPGC-T350	LPGC-T450	LPGC-T800	LPGC-T1000
Capacity	250L	300L	450L	800L	1000L
Temperature Range	Without Lighting: 0-50°C, With lighting: 10-50°C				
Shelves	3				
Display Resolution	0.1°C				
Temperature Stability	±1°C				
Temperature Uniformity	±1.5°C			±2°C	
Lighting Intensity	0-12000LX Six -grade adjustable	0-20000LX 0-25000LX Six -grade adjustable		0-30000LX 0-35000LX Six -grade adjustable	
Lighting Type	One surface illumination (Front door)	Three surface illumination		Shelves illumination (two Shelves)	
Programmer Function	Temperature, humidity, light intensity, can be set separately, and 30 programmers Time range is 1-99 hours 59mins for each programmer				
Power Consumption	1700W		2000W	3700W	4800W
Electrical Requirement	220V 50HZ			380V 50HZ	
Ambient Temperature	RT+5-30°C				
Interior Dimension (W×D×H) cm	58×51×84	52×55×114	70×55×114	80×59×165	105×59×165
Exterior Dimension (W×D×H) cm	73×74×155	83×85×185	95×85×185	146×89×178	141×89×195

Humidity control series:

Model	LPGC-T350H	LPGC-T450H	LPGC-T800H	LPGC-T1000H
Capacity	300L	450L	800L	1000L
Temperature Range	Without Lighting: 0-50°C, With lighting: 10-50°C			
Shelves	3			
Display Resolution	0.1°C			
Temperature Stability	±1°C			
Temperature Uniformity	±1.5°C		±2°C	
Humidity Range	50-90%RH		50-90%RH	
Humidity Accuracy	±5-7%RH		±5-7%RH	
Lighting Intensity	0-20000LX 0-25000LX Six -grade adjustable		0-30000LX 0-35000LX Six -grade adjustable	
Lighting Type	Three surface illumination		Shelves illumination (two Shelves)	
Programmer Function	Temperature, humidity, light intensity, can be set separately, and 30 programmers Time range is 1-99 hours 59mins for each programmer			
Power Consumption	1700W	2050W	3800W	5000W
Electrical Requirement	220V 50HZ		380V 50HZ	
Ambient Temperature	RT+5-30°C			
Interior Dimension(W×D×H) cm	52×55×114	70×55×114	80×59×165	105×59×165
Exterior Dimension (W×D×H) cm	83×85×185	95×85×185	148×89×178	141×89×195

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