BioLAB

PRODUCT CATALOG

PLANT GROWTH CHAMBER BGI1BL3

CE ISO9001 CERTIFIED

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PLANT GROWTH CHAMBER BGI1BL3

LED PLANT GROWTH CHAMBER

- Fluorine-free design
- Large LCD screen, multi data display at one screen, easily to observe and operate.
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- The unique air duct design can prevent the plant seedlings from being blown down due to excessively fast circulating wind speed during the test
- 30 programs can be set, max timing for each group is 99 hours 59 minutes. Temperature, humidity, light intensity and time etc parameters fast setting.
- It can simulate the temperature changes during the day and night in nature, and can also simulate the multi-directional light sources in nature.
- User's set parameters can be stored automatically when power off suddenly, and

SPECIFICATIONS

Model	BGI1BL3
Chamber Volume	300L
Temperature Range	Without Lighting: 0~50℃ , With lighting: 10~50℃
Display Resolution	0.1℃
Temperature Stability	±1℃
Temperature Uniformity	±1.5℃
Humidity Range	50~90%RH
Humidity Accuracy	±5~7%RH
Lighting Intensity	0~20000LX0~25000LXSix-grade adjustable
Lighting Type	Three surface Illumination
Programmer Function	Temperature, humidity, light intensity can be set separately, and 30 programmersTime range is 1~99 hours 59 mins for each programmer
Power Consumption	1700W
Electrical Requirement	220V 50Hz
Ambient Temperature	RT+5~30℃
Interior Dimension(WxDxH,mm)	520x550x1140
Exterior Dimension(WxDxH,mm)	830x850x1850
Shelves	3(PCS)
Alt Name	LED plant growth chamber

FEATURES

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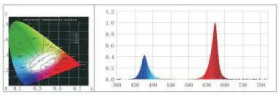
• 30 programs can be set, max timing for each group is 99 hours 59 minutes. Temperature, humidity, light intensity and time etc parameters fast setting.
• It can simulate the temperature changes during the day and night in nature, and can also simulate the multi-directional light sources in nature.
• User's set parameters can be stored automatically when power off suddenly, and it resume last program settings when power on
• 2 imported compressors and fan motor, 2 cooling systems ensure that plant cultivation can run for a long time safely.

Advantages
• No heat interference: LED beams do not generate heat and extract useful light that is beneficial to plant growth.
• Energy saving and environmental protection: LED light sources have extremely low energy consumption, about 80% lower than ordinary light sources
• Small size: LED light sources have the characteristics of miniaturization, flatness, and strong designability
• Stable and long life: Provides precise and stable lighting, with a service life of more than 30,000 hours and high photoelectric conversion efficiency.
• Fast response speed: Optional overhead flat lighting can ensure that the culture can fully and evenly absorb the light source to maintain the consistency of experimental results.

Safety
• Independent temperature-limited alarm system ensures experiments run safely
• Over temperature and temperature difference alarms

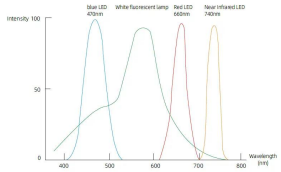
Option:
• RS485 connector
• CO2 inlet
• CO2 controller (imported IR CO2 sensor, CO2 control range: 0-5000ppm or: 0-20%)
• Embedded printer
• Illumination control system
• USB connect

Spectral detection data

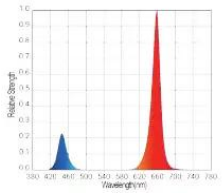


High-quality LED grow light beads

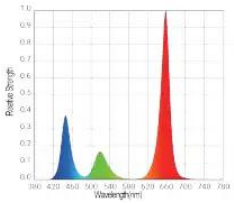
LED vs. White Fluorescence Spectrum



Red and Blue Light Spectrum



LED RGB Color Light Spectrum



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