BioLAB

PRODUCT CATALOG

PLANT GROWTH CHAMBER BGI-3708

CE ISO9001 CERTIFIED

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PLANT GROWTH CHAMBER BGI-3708

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	BGI-3708
Chamber Volume	1000L
Temperature Range	Without Lighting: 0~50℃ , With lighting: 10~50℃
Display Resolution	0.1℃
Temperature Stability	±1℃
Temperature Uniformity	±2℃
Humidity Range	50~90%RH
Humidity Accuracy	±5~7%RH
Lighting Intensity	0~30000LX0~35000LXSix-grade adjustable
Lighting Type	Shelves Illumination (two Shelves)
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	2900W
Electrical Requirement	220V 50Hz
Ambient Temperature	RT+5~30℃
Interior Dimension(WxDxH,mm)	1050x590x1650
Exterior Dimension(WxDxH,mm)	1475x890x1950
Shelves	3(PCS)
Packing Dimension	180*106*224
CBM	4.27
Net Weight	426.00
Gross weight	554
Alt Name	LED plant growth chamber

FEATURES

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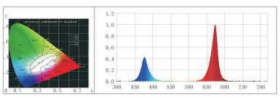
• 30 programs can be set, max timing for each group is 99 hours 59 minutes. Temperature, humidity, light intensity and time etc parameters fast setting.
• It can simulate the temperature changes during the day and night in nature, and can also simulate the multi-directional light sources in nature.
• 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

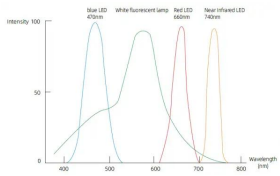
Option:
• RS485 connector
• CO2 inlet
• CO2 controller (imported IR CO2 sensor, CO2 control range: 0-5000ppm or: 0-20%)
• Embedded printer
• Illumination control system
• USB connect

Spectral detection data

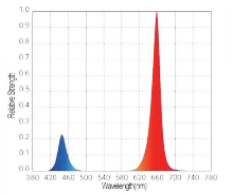


High-quality LED grow light beads

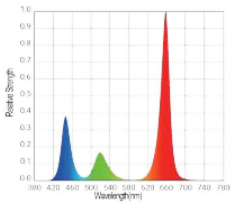
LED vs. White Fluorescence Spectrum



Red and Blue Light Spectrum



LED RGB Color Light Spectrum



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com