

Features

- 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 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

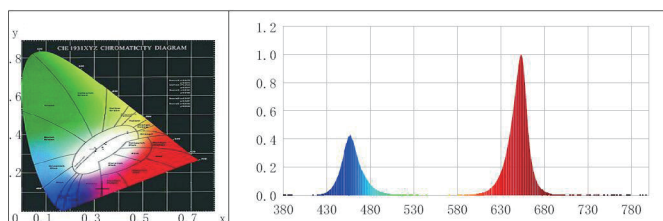
- No heat interference: LED beams do not generate heat and extract useful light that is beneficial to plant growth.
- Energy saving and environmental protection: LED light sources have extremely low energy consumption, about 80% lower than ordinary light sources
- Small size: LED light sources have the 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

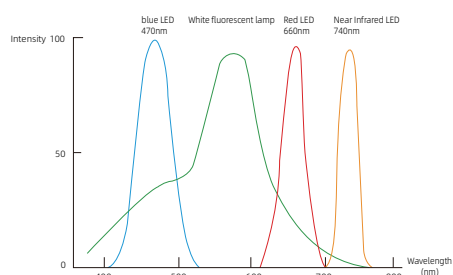
- RS485 connector
- CO₂ inlet
- CO₂ controller (imported IR CO₂ sensor, CO₂ control range: 0-5000ppm or: 0-20%)
- Embedded printer
- Illumination control system
- USB connect



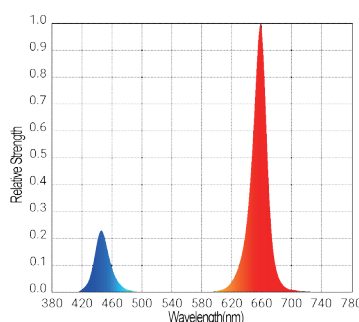
spectral detection data



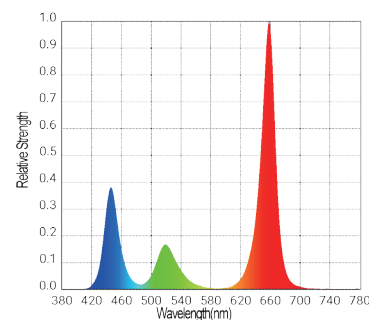
High-quality LED grow light beads



LED vs. White Fluorescence Spectrum



Red and Blue Light Spectrum



LED RGB Color Light Spectrum

LED plant growth chamber

Specifications

Model	MGC-350BP-2L MGC-450BP-2L	MGC-350HP-2L MGC-450HP-2L	MGC-800BP-2L MGC-1000BP-2L	MGC-800HP-2L MGC-1000HP-2L	MGC-1500BP-2L	MGC-1500HP-2L
Volume	300L 450L		800L 1000L		1500L	
Temperature control range	With light 10℃ ~50℃ , without light 0~50℃					
Temperature resolution	0.1℃					
Temperature fluctuation	±1℃					
Humidity control range	/	50~90%RH	/	50~90%RH	/	50~90%RH
Humidity deviation	/	±5~7%RH	/	±5~7%RH	/	±5~7%RH
Light intensity	0-28000LX 0-35000LX six levels adjustable		0-42000LX 0-50000LX six levels adjustable		0-55000LX six levels adjustable	
Lighting Type	LED Three surface illumination		LED Shelves illumination(two Shelves)			
Input power	1700W 2000W	1700W 2050W	2700W 2800W	2800W 2900W	4300W	4500W
Electricity	AC 220V 50HZ					
Work temp.	5℃ ~30℃					
Continuously working time	Can work long time continuously (Two sets fully sealed compressors auto shift working)					
Chamber dimension(mm) W×D×H	520×550×1140 700×550×1140		800×590×1650 1050×590×1650		1550×590×1650	
Overall dimension (mm) W×D×H	830×850×1850 950×850×1850		1475×890×1780 1410×890×1950		1570×1475×2050	
Shelves standard quantity	3 shevles					