



Plant Growth Chamber LPGC-A20

Plant Growth Chamber LPGC-A20 is comprised with mechanical compression refrigeration system offers, with illumination: +10°C to +55°C of temperature range and, without illumination: +5°C to +50°C of temperature range. Features 840 L of chamber volume with adjustable shelves and high-quality Siemens LED cold lights with 0 to 35000 LX of illuminance. Designed with A3 steel Plate with protective coating housing and SUS304 stainless steel interior with circular corners, features double layer doors with observation window, ensures good observation and insulation. Equipped with PID controller, PT100 sensor, dry and wet bulb sensor, and light sensor, provides settings for 99 programs and 30 segments. With 4 surface inner lighting, ultrasonic output humidity system with 30% to 90% RH of humidity range, adjustable castors with brakes, USB port and Ethernet interface, this plant growth chamber is provided with advanced protection system and independent alarm system, makes it an ideal unit to produce environmental conditions (humidity and temperature) that maximize plant growth.

Features

- ❑ Comprised with mechanical compression refrigeration system and R16 refrigerant
- ❑ With illumination: +10°C to +55°C of temperature range and without illumination: +5°C to +50°C of temperature range
- ❑ 840 L of chamber volume with adjustable shelves and high-quality Siemens LED cold lights
- ❑ A3 steel Plate with protective coating housing and SUS304 stainless steel interior with circular corners
- ❑ Double layer doors with observation window, ensures good observation and insulation
- ❑ PID controller, PT100 sensor, dry and wet bulb sensor, and light sensor
- ❑ 4 surface inner lighting with 0 to 35000 LX of illuminance, ensures light intensity inside workroom
- ❑ Ultrasonic output humidity system with 30% to 90% RH of humidity range
- ❑ Adjustable castors with brakes, for easy movement and stability
- ❑ USB port and Ethernet interface, for convenient operation and data processing
- ❑ Advanced protection system for power-off, over-current, refrigerant high pressure, and earth leakage
- ❑ Independent alarm system for temperature limits
- ❑ An ideal unit to produce environmental conditions that maximize plant growth

Application

Plant Growth Chamber is used in plant breeding and genetic research, photosynthesis and nutrition, and other aspects of plant physiology & biotechnology, microbial cultivation test, feeding of insect test, incubation etc. across agriculture, plant biology & biotechnology, medicine, and various other medical and scientific research institutes.

Specifications

Model	LPGC-A20
Chamber Volume	840 L
Temperature Range	With illumination: +10°C to +55°C Without illumination: +5°C to +50°C
Temperature Uniformity	± 1°C
Temperature Fluctuation	± 0.5°C
Temperature Uniformity Tolerance	± 2°C
Temperature Fluctuation Tolerance	± 1°C
Ambient Temperature	10°C to 30°C
Humidity Range	30% to 90 % RH
Humidity Deviation	± 5% RH
Plant Lightning System	4 surface lighting system; High quality Siemens LED cold light lamp; 0 to 35000 LX
Cooling System	Mechanical compression refrigeration system
Refrigerant	R16
Humidity System	Ultrasonic output method
Controller	PID
Sensor	Temperature Sensor: PTR Platinum Resistance PT100; Humidity Sensor: Dry and wet bulb sensor; Light Sensor: 0 to 7 W LX, Accuracy:7%
Housing	Steel Plate with protective coating
Interior	SUS304 stainless steel

Door	2
Observation window	Double-layer insulating glass
Protection system	Power-off Protection; Over-current Protection; Refrigerant High-pressure Protection; Earth Leakage Protection
Alarm system	Independent temperature limit alarm system
Castors	4
Noise	≥65 dBA
Power Supply	AC 230 V, 50 Hz
Power	350 W
Internal Dimension (W×D×H)	1000×700×1200 mm
External Dimension (W×D×H)	1160×900×1840 mm
Weight	450 kg (approx.)