

Plant growth chamber

—Professional temperature, humidity and light control

simulating the real climate environment

PG SERIES



Application:

Plant growth chamber are widely used in plant research, commercial horticultural cultivation, plant source pharmaceutical and other bio pharmaceutical industries. It is suitable for plant culture, seed germination, tissue culture, algal reproduction, and the cultivation of small insects and *Drosophila*. It is the equipment that biotechnology companies, government departments and university research institutes often need to purchase

Function and features:

1. It has constant temperature and humidity and light setting, and can simulate the weather conditions of daylight illumination such as cloudy day and dark night, providing proper environmental factors for plant growth.
2. The temperature range, air flow size, humidity control and illumination can be adjusted by the control system, and can be programmed in sections according to different needs and different seasons. It is very suitable for 3-6 months of plant culture or longer running time.
3. Using fluorine-free R134 environment-friendly refrigerant, the system is more energy-saving and efficient, making the environment healthier. Balanced refrigeration, low temperature fluctuation, with automatic defrosting function, equipped with internationally famous brand compressor, with delay protection function, and stable operation.
4. The chamber is made of mirror stainless steel, and the shelf spacing and the number of shelves can be adjusted. The humidification component adopts a built-in large capacity intelligent humidification system with an automatic water replenishment tank, which is convenient for use
5. The temperature control system adopts an LCD screen and programmable intelligent PID controller to keep the temperature and humidity accurate. It also has functions such as timing, over temperature alarm and data recovery after power failure.
6. The lighting direction of the chamber can be selected as required: the PG series is a laminate lighting type, and the gzp and pqh series are three sides lighting type. In addition, the air volume of the air flow can be controlled to avoid excessive air volume affecting the seedlings
7. The lamps on both sides of the chamber are separated by sealing glass. There is no need to interrupt the cultivation when replacing the lamps (only for gzp and pqh Series). Dismountable compressor it is convenient for regular cleaning.





⊕ Mirror stainless steel

High temperature resistance, fire resistance, corrosion resistance, can be recycled



⊕ Professional lighting system

Using three-surface light source, use mirror stainless steel in the cavity as reflective material, so that the lighting effect is better, and the light source classification is adjustable



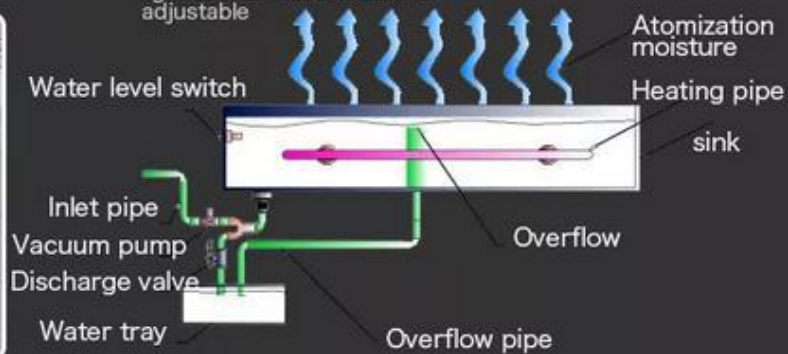
⊕ Double door

Internal toughened glass door, easy to observe, outer silicone seal ring, good sealing



⊕ silicone sealing ring

High quality silicone seals, high temperature, good sealing



⊕ ALLIGENT™ Humidifying system

Original Humidification Design, Automatic Water Filling Design, Automatic Water Level Control, Precise Addition and Control of Humidity, SUS304 Stainless Steel in the Inner Chamber and Water Tank, Guaranteed Atomization Quality and Persistence



⊕ Fluorine-free balanced refrigeration system

Using fluorine-free R134 refrigerant, energy-saving and efficient, green, with inlet and outlet



⊕ switch

There is a power switch on the side, safe use of electricity



⊕ Cold rolled steel plate

Shell using environmentally friendly electrostatic treatment, high quality cold rolled steel plate



⊕ Lighting tube

High-intensity fluorescent lamp, adjustable in illuminance



⊕ Intelligent temperature controller

Intelligent LCD temperature controller, intuitive display, stable measurement and control, easy to operate



Printer



Communication interface software



socket



Test hole

Optional accessories

1. gas outfit
2. RS485 or USB port
3. Portable printer
4. Touch screen controller
5. Programmable software
6. Wireless mobile phone short message alarm system
7. CO2 concentration detection
8. Laminate light shelf
9. Lamps with different spectra

Specification:

name	Plant growth chamber (shelves type)					
Model	LRH-100PG	LRH-150PG	LRH-250PG	LRH-350PG	LRH-800PG	LRH-1000PG
Interior (mm) H*W*D	580×450× 380 (100l)	800×500× 380 (150l)	1000×550× 450 (250l)	1000×580× 600 (350l)	1200×1050× 650 (800l)	1200×1200× 700 (1000l)
volume (L)	100	150	250	350	800	1000
Voltage (V)	220			220	220	220
Power(KW)	0.9	1.2	1.5	2.0	3.7	4.5
Timer	0~999min					
Temp.range (°C)	0~65			0~65	0~65	0~65
Shelf with lights	1pcs	2pcs	2pcs	2pcs	4pcs	4pcs
LUX	≥5000LX					
Humidity	40%~95%			40%~95%	40%~95%	40%~95%
Humi fluctuation (%)	±3			±3	±3	±3
accuracy (°C)	±0.1			±0.1	±0.1	±0.1
fluctuation (%)	±0.5			±0.5	±0.5	±0.5

2 sides+door lights

Name	Plant growth chamber (2 sides+door lighting)					
Model	GZP-150PG	GZP-250PG	GZP-350PG	GZP-800PG	GZP-1000PG	
Interior (mm)	800×500× 380 (150L)	1000×550× 450 (250L)	1000×580× 600 (350L)	1200×1050× 650 (800L)	1200×1200× 700 (1000L)	
Volume (L)	150	250	350	800	1000	
Voltage (V)	220			220	220	

Power (KW)	0.9	1.0	1.2	2.8	3.6	
timer	0~9999min					
Temp.range (°C)	0~65			0~65	0~65	
shelf	2pcs			4pcs		
LUX	10000LX	15000LX	15000LX	15000LX	15000LX	
accuracy (°C)	±0.1			±0.1	±0.1	
fluctuation (%)	±0.5			±0.5	±0.5	

Name	Plant growth chamber (2 sides+door lighting) with humidity					
name	PQH-150PG	PQH-250PG	PQH-350PG	PQH-800PG	PQH-1000PG	
interior (mm)	800×500×380 (150l)	1000×550×450 (250l)	1000×580×600 (350l)	1200×1050×650 (800l)	1200×1200×700 (1000l)	
Volume (L)	150	250	350	800	1000	
Voltage (V)	220			220	220	
Power (KW)	1.3	1.5	1.8	3.5	4.3	
timer	0~9999min					
Temp.range (°C)	0~65			0~65	0~65	
shelf	2 shelves			4 shelves		
LUX	10000LX	15000LX	15000LX	15000LX	15000LX	
Humidity accuracy (°C)	40%~95%			40%~95%	40%~95%	
fluctuation (%)	±3			±3	±3	
Temp.accuracy (°C)	±0.1			±0.1	±0.1	
fluctuation (%)	±0.5			±0.5	±0.5	

KENTON®

KENTON APPARATUS LTD. Was found in 1999, production plant was set in Guangzhou, China. It is mainly engaged in production, sales and export of laboratory thermostatic equipment and biological scientific equipment, and has provided high-quality products and services for professional laboratories and scientific research

.institutions at domestics and abroad for many years.

We relies on an international professional R & D team to keep the design and technology of products in step with the world and constantly seek breakthroughs.

Since its establishment, the company has been focusing on thermostatic equipment products in related fields. Now it is a high-tech enterprise integrating science, industry and trade. Its business covers China, Southeast Asia, America, Europe, Australia and other countries.

At the same time, based on the business philosophy of "walking with scientific researchers", and taking advantage of the company's geographical advantages, the company has carried out extensive communication and exchange with scientific researchers in different regions for many years, and carried out long-term follow-up services to users, constantly improving the function and quality of products, so that products can better meet the requirements of users.

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