PLANT GROWTH CHAMBER

PLANT GROWTH CHAMBER

Creates precise environmental conditions for optimal and healthy growth, the interior fluorescent lamps are evenly spaced for uniform and balanced light. Maintaining a specific climate for an extended time, the simulation devices yield reproducible results and are easy to clean. It accommodates any size or quantity of plants needed in botanical or agriculture research.

Used in Compatible for a variety of applications like plant tissue culture studies, seed germination studies, plant pathology and wide ranging general plant growth applications..

Also known as Tissue Culture, Laboratory Plant Growth Chamber.

CHA31 PLANT GROWTH CHAMBER

LCD display

Balance Refrigeration

Adopt without fluorine R134a refrigrant technology

Duct circulation

Unique air circulation

Stainless steel internal material

Programmable intelligent PID control

Double door design

Buit-in high capacity humidifier and automatic water replenishment by the external tank

SPECIFICATIONS

Model	CHA31-150	CHA31-250	CHA31-350
Capacity	150 L	250 L	350 L
Temperature Range	10~50(with Illumination), 5~50(without Illumination)		
Temperature Accuracy	±0.5°C		
Humidity Range	50-90%RH		
Humidity Fluctuation	±5%RH		
Illumination Range	0~10000 lux	0~15000 lux	
Timer Range	0~999 hr		
Shelves	2		
Inner Dimension	800 x 500 x 380 mm	1000 x 550 x 450 mm	1200 x 550 x 550 mm
Overall Dimension	1525 x 730 x 680 mm	1775 x 785 x 750 mm	1775 x 815 x 900 mm
Weight (Net/Gross)	120 kg	155 kg	188 kg
Power	900 W	1000 W	1200 W
Power Supply	220V 50/60Hz		

CHA31-150

CHA31-250

CHA31-350

CHA021 PLANT GROWTH CHAMBER

Microprocessor controller for temperature and humidity ensures of precise and reliable control

Simulate changing temperature and light in day/night

Independent temperature-limiting alarm system ensures experiments run safely.

Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable

Even air circulation

Imported compressor

RS485 connector is option which can connect computer to record the parameters and the variations of temperature

SPECIFICATIONS

Model	CHA021-300A	CHA021-300B	CHA021-300C	CHA021-450A
Capacity	300 L			450 L
Display Resolution	0.1°C			
Temperature Uniformity	±2°C			
Shaking Speed Range	1200 W	1450 W		2000 W
Temperature Range	With Lighting: 10-50°C Without lighting 4-50°C			
Temperature Stability	±1°C			
Ambient Temperature	+5-30°C			
Continuous Working Time	No less than 180h			
Lighting Intensity	0-15000LX Six-grade adjustable	0-20000LX Six-grade adjustable		0-25000LX Six-grade adjustable
Lighting Type	Two surface Illumination	Three surface illumination		
Interior Dimension	520Wx550Dx1140H mm			700Wx550Dx1140H mm
Exterior Dimension	830Wx850Dx1850H mm			950Wx850Dx1850H mm
Shelves	3 pcs			

Model	CHA021-450B	CHA021-800A	CHA021-800B
Capacity	450 L	800 L	
Display Resolution	0.1°C		
Temperature Uniformity	±2°C		
Shaking Speed Range	2000 W	3650 W	
Temperature Range	With Lighting: 10-50°C Without lighting 4-50°C		
Temperature Stability	±1°C		

Ambient Temperature	+5-30°C	
Continuous Working Time	No less than 180h	
Lighting Intensity	0-25000LX Six-grade adjustable	0-30000LX Six-grade adjustable
Lighting Type	Three surface illumination	Shelves illumination (two Shelves)
Interior Dimension	700Wx550Dx1140H mm	965Wx580Dx1430H mm
Exterior Dimension	950Wx850Dx1850H mm	1475Wx890Dx1780H mm
Shelves	3 pcs	

CHA021-300A

CHA021-300B

CHA021-300C

CHA021-450A

CHA021-450B

CHA021-800A

CHA021-800B

CHA022 PLANT GROWTH CHAMBER

Microprocessor controller for temperature and humidity ensures of precise and reliable control

Simulate changing temperature and light in day/night

Independent temperature-limiting alarm system ensures experiments run safely.

Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable

Even air circulation

Imported compressor

RS485 connector is option which can connect computer to record the parameters and the variations of temperature

SPECIFICATIONS

Model	CHA022-300A	CHA022-300B	CHA022-450A
Capacity	300 L		450 L
Display Resolution	0.1°C		
Temperature Uniformity	±2°C		
Shaking Speed Range	1500 W		2050 W
Temperature Range	With Lighting: 10-50°C Without lighting 4-50°C		

Temperature Stability	±1°C	
Ambient Temperature	+5-30°C	
Humidity Range	50-90%RH	
Humidity Accuracy	±5-7%RH	
Continuous Working Time	No less than 180h	
Lighting Intensity	0-20000LX Six-grade adjustable	0-25000LX Six-grade adjustable
Lighting Type	Three surface illumination	
Interior Dimension	520Wx550Dx1140H mm	700Wx550Dx1140H mm
Exterior Dimension	830Wx850Dx1850H mm	950Wx850Dx1850H mm
Shelves	3 pcs	

Model	CHA022-450B	CHA022-800A	CHA022-800B
Capacity	450 L	800 L	
Display Resolution	0.1°C		
Temperature Uniformity	±2°C		
Shaking Speed Range	2050 W	4100 W	3700 W
Temperature Range	With Lighting: 10-50°C Without lighting 4-50°C		
Temperature Stability	±1°C		
Ambient Temperature	+5-30°C		
Humidity Range	50-90%RH		
Humidity Accuracy	±5-7%RH		
Continuous Working Time	No less than 180h		
Lighting Intensity	0-25000LX Six-grade adjustable	0-30000LX Six-grade adjustable	
Lighting Type	Three surface illumination	Shelves illumination (two Shelves)	
Interior Dimension	700Wx550Dx1140H mm	965Wx580Dx1430H mm	
Exterior Dimension	950Wx850Dx1850H mm	1475Wx890Dx1780H mm	
Shelves	3 pcs		

CHA022-300A

CHA022-300B

CHA022-450A

CHA022-450B

CHA022-800A

CHA022-800B

CHA023 PLANT GROWTH CHAMBER

Microprocessor controller for temperature and humidity and light intensity, 30 programs

Large LCD screen

Simulate changing temperature and light in day/night

Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable

R134a refrigerant, two imported compressors, continuous running time

Independent temperature-limiting alarm system ensures experiments run safely

RS485 connector is option which can connect computer to record the parameters and the variations of temperature

SPECIFICATIONS

Model	CHA023-250	CHA023-300A	CHA023-300B
Capacity	250 L	300 L	450 L
Display Resolution	0.1°C		
Temperature Range	Without Lighting: 0-50°C , With lighting: 10-50°C		
Temperature Stability	±1°C		
Temperature Uniformity	±1.5°C		
Lighting Type	One surface illumination (front door)		Three surface illumination
Programmer Function	Temperature, humidity, light intensity, can be set separately, and 30 programmers Time range is 1-99 hours 59mins for each programmer		
Power Consumption	1700 W		2000 W
Electrical Requirement	220 V 50 HZ		
Ambient Temperature	RT+5-30°C		
Interior Dimension	580Wx510Dx835H mm	520Wx550Dx1140H mm	700Wx550Dx1140H mm
ExteriorDimension	725Wx740Dx1550H mm	830Wx850Dx1850H mm	950Wx850Dx1850H mm
Shelves	3 pcs		
Humidity Range	-	-	-
Humidity Accuracy	-	-	-

Model	CHA023-450A	CHA023-450B	CHA023-800A
Capacity	300 L	450 L	800 L
Display Resolution	0.1°C		
Temperature Range	Without Lighting: 0-50°C , With lighting: 10-50°C		
Temperature Stability	±1°C		
Temperature Uniformity	±1.5°C		±2°C
Lighting Type	Three surface illumination		Shelves illumination(two Shelves)
Programmer Function	Temperature, humidity, light intensity, can be set separately, and 30 programmers Time range is 1-99 hours 59mins for each programmer		
Power Consumption	1700 W	2050 W	3700 W
Electrical Requirement	220 V 50 HZ		380 V 50 HZ
Ambient Temperature	RT+5-30°C		
Interior Dimension	520Wx550Dx1140H mm	700Wx550Dx1140H mm	800Wx590Dx1650H mm
ExteriorDimension	830Wx850Dx1850H mm	950Wx850Dx1850H mm	1475Wx890Dx1780H mm

Shelves	3 pcs	
Humidity Range	50-90%RH	-
Humidity Accuracy	±5-7%RH	-

Model	CHA023-800B	CHA023-1000A	CHA023-1000B
Capacity	1000 L	800 L	1000 L
Display Resolution	0.1°C		
Temperature Range	Without Lighting: 0-50°C , With lighting: 10-50°C		
Temperature Stability	±1°C		
Temperature Uniformity	±2°C		
Lighting Type	Shelves illumination(two Shelves)		
Programmer Function	Temperature, humidity, light intensity, can be set separately, and 30 programmers Time range is 1-99 hours 59mins for each programmer		
Power Consumption	4800 W	3800 W	5000 W
Electrical Requirement	380 V 50 HZ		
Ambient Temperature	RT+5-30°C		
Interior Dimension	1050Wx590Dx1650H mm	800Wx590Dx1650H mm	1050Wx590Dx1650H mm
ExteriorDimension	1411Wx890Dx1950H mm	1475Wx890Dx1780H mm	1411Wx890Dx1950H mm
Shelves	3 pcs		
Humidity Range	-	50-90%RH	
Humidity Accuracy	-	±5-7%RH	