

Plant Growth Chamber

Three-side light source



- Culture of plants, seedling culture, cultivation, growth, form genesis, growth laboratory and tissue culture, genetic research, agricultural chemicals, pathology, ecology, animals, insect culture, keeping quality test, etc.
- Light system attached on the top and Both side - Additional light source, light intensity, wavelength, light quality, and LED lamp wavelength available, as well as light intensity adjustable in 7 steps
- 11 Step Programmable - Possible to set temperature, humidity, CO₂, intensity of illumination in 11 steps and possible for 11 variation tests and repetition operations for day and night
- If CO₂ automatic control device using IR sensor is attached, CO₂ can be automatically adjusted from the concentration in the atmosphere to 5,000ppm
- The humidity required for growth of plants is adjustable from 30% to 98%

DS-52G3P



DS-52G4P



Option Accessories

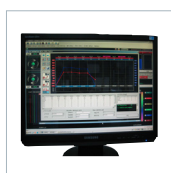
RECORDER



CONTROLLER



PC Monitor



DS-52G3PC-P

CO₂ Plant Growth Chamber

Three-side light source and high intensity of light (Communication)

Communication : RS-232 or RS-485 interface & communication PC software program

Data acquisition : 6 channel digital recorder



DS-52G-GV

View CO₂ Growth Chamber

Temperature : -10°C to 50°C

Dimensions (in) : 700x700x1600

out860x1400x1998

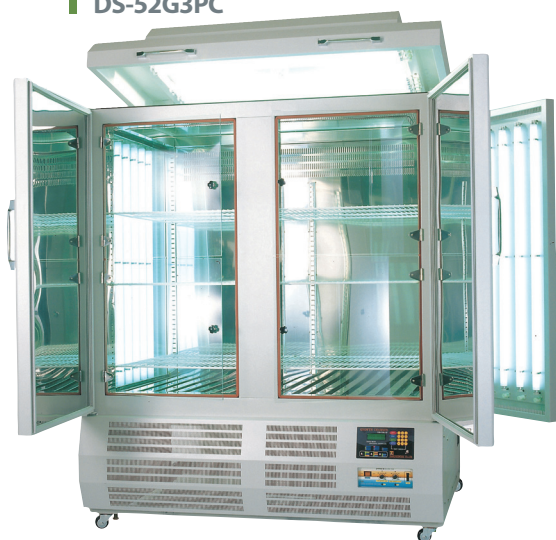


CO₂ Plant Growth Chamber

Three-side light source and high intensity of light

- It has the mode for user to immediately correct any error in temperature, humidity, CO₂, internal condition of light chamber and indication of main CPU display.
- It can allow for external air to come into inside of it and to exhaust harmful gases generated from plants in order to prevent lack of oxygen in the closed space therefore the plants can be grown in fresh condition.
- The lamp is delayed to be turned on as long as the set time in sequence, and it can protect the equipment from over – consumption of electric power when the power is suddenly turned on after power interruption, and it can reduce stress to the growth of plants caused by sudden changes of illumination.
- It has the mode to set operating temperature of the freezer therefore it can prolong the life of the freezer by automatically preventing to operate at an unnecessarily high temperature.

DS-52G3PC



DS-52G4PC-P



		DS - 52G3P	DS - 52G4P	DS - 52G3PC	DS - 52G4PC
Type		No CO2 chamber		CO2 chamber	
Main controller		Programmable 11step, Microprocessor LCD displayed, Auto-tuning multi-functional P.I.D controller (Temp, Humidity, CO2, Light Cycle)			
Temperature	Range	0℃ to 60℃			
	Accuracy	±0.2℃ at 25℃			
Humidity	Range	30 to 98% RH			
	Accuracy	±0.8% at 70%			
	Humidifier	Evaporation by motor			
CO2	Range	No		0 - 5000 ppm	
	Accuracy	No		±30 ppm at 1000 ppm	
	Sensor	No		Electronic infra-red ceramic NDIR sensor	
Illumination	Lux.meter	0 ~ 50,000 Lux. instrumentation available, LCD display movable sensor position(sensor option)			
	Lamp	H.I.D 6ea, FL 32W 12sets	FL 32W 19sets	H.I.D 6ea, FL32W 12sets	FL 32W 19sets
	Lamp bank	Tempered safety vacuum triple pair glass			
	Light bank	2 dimension type, ceiling and right side			
Dimensions (WxDxH)mm	In	1400 x 800 x 1200	600 x 600 x 1200	1400 x 800 x 1200	600 x 600 x 1200
	Out	1600 x 1100 x 2245	800 x 900 x 1960	1600 x 1100 x 2245	800 x 900 x 1960
	Capacity	1344 L	432 L	1344 L	432 L
Door	Type	Magnetic packing door with tempered glass viewing window			
	Q'ty	2ea	1ea	2ea	1ea
Material	In / Out	Stainless steel (SUS 304)/Steel plate with powder coating(SCP-1)			
	Side/Center	Tempered safety Vacuum triple pair glass			
Air exhaust circulation fan		Sirocco fan			
Compressor		1HP	1/2HP	1HP	1/2HP
Shelves		Adjustable 6ea	Adjustable 3ea	Adjustable 6ea	Adjustable 3ea
Power(AC220V, 60Hz)		5.5Kw	3.1Kw	5.5Kw	3.1Kw