

Artificial Light Source Phytotron

Possible go into and out of the chamber

- 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.
- 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
- The humidity required for growth of plants is adjustable from 30% to 98%
- NDIR CO₂ gas PPM unit - If CO₂ automatic control device using IR sensor is attached, CO₂ can be automatically adjusted from the concentration in the atmosphere to 5,000ppm therefore it can help photosynthesis action.
- Light System - On the basis of 50,000 Lux, it can additionally produce light source and wavelength according to the purpose, and an illumination meter is mounted and the brightness of the light is adjustable in 7 steps other than simply ON/OFF type

DS-59L



DS-59L Internal



DS-59M3(Order made)



(in) 1500 x 1000 x 2070 x 3room (3105 L x 3room)
(out) 5600 x 1590 x 2840(WxDxH)mm
HPS lamp 9sets x 3room



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Possible go into and out of the chamber

DS-59L2



Natural light growth chamber (Order made)



1 chamber Growth chamber

	DS - 59S	DS - 59M	DS - 59L	
Main controller	Programmable 11 step, Microprocessor LCD displayed, Auto-tuning multi-functional P.I.D controller (Temp, Humidity, CO2, Light Cycle)			
Temperature	0°C to 60°C / ±0.5°C at 25°C			
Humidity	Range	30 to 98% RH / ±0.8% at 70%		
	Humidifier	Evaporation by motor		
CO2	Range	0 - 5000 ppm / ±30 ppm at 1000 ppm		
	Sensor	Electronic infra-red ceramic NDIR sensor		
Illumination	Lux.meter	0 ~50,000Lux. instrumentation available, LCD display movable sensor position(sensor option)		
	Lamp	HPS 6ea	HPS 9ea	HPS 16ea
	Lamp bank	Tempered safety vacuum triple pair glass		
	Light bank	1 dimension type, ceiling		
Dimensions (WxDxH)mm	In	800 x 700 x 1750 / 980 L	1600 x 1400 x 1750 / 3920 L	2000 x 1500 x 1750 / 5250 L
	Out	1300 x 1070 x 2630	2100 x 1770 x 2630	2500 x 1870 x 2630
Material	In / Out	Stainless steel (SUS 304) / Steel plate with powder coating(SCP-1)		
	Side/Center	Tempered safety Vacuum triple pair glass		
Compressor	1.5HP	2HP	4HP	
Shelves	SUS , Adjustable 3ea (per room)			
Safety system	High & Low temp. S/W, Auto Drain port, Water level monitor, No fuse breaker S/W, Chamber in water cock			
Power(AC220V, 60Hz)	6Kw	10Kw	16Kw	

2 chamber Growth chamber

	DS - 59S2	DS - 59M2	DS - 59L2	
Illumination lamp	HPS 6ea x 2room	HPS 9ea x 2room	HPS 16ea x 2room	
Dimensions (WxDxH)mm	In	800 x 700 x 1750 x 2room	1600 x 1400 x 1750 x 2room	2000 x 1500 x 1750 x 2room
	Out	2300 x 1070 x 2630	3900 x 1770 x 2630	4500 x 1870 x 2630
	Capacity	1960 L (980 L x 2room)	7840 L (3920 L x 2room)	10,500 L (5250 L x 2room)
Compressor	1.5HP x 2ea	2HP x 2ea	4HP x 2ea	
Power(AC220V, 60Hz)	12Kw	20Kw	32Kw	

3 chamber Growth chamber

	DS - 59S3	DS - 59M3	DS - 59L3	
Illumination lamp	HPS 6ea x 3room	HPS 9ea x 3room	HPS 16ea x 3room	
Dimensions (WxDxH)mm	In	800 x 700 x 1750 x 3room	1600 x 1400 x 1750 x 3room	2000 x 1500 x 1750 x 3room
	Out	3300 x 1070 x 2630	4900 x 1600 x 2630	6500 x 1890 x 2630
	Capacity	2,940 L (980 L x 3room)	11,760 L (3920 L x 3room)	15,750 L (5250 L x 3room)
Compressor	1.5HP x 3ea	2HP x 3ea	4HP x 3ea	
Power(AC220V, 60Hz)	18Kw	30Kw	48Kw	

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- 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
- The humidity required for growth of plants is adjustable from 30% to 98%
- NDIR CO2 gas PPM unit - If CO2 automatic control device using IR sensor is attached, CO2 can be automatically adjusted from the concentration in the atmosphere to 5,000ppm therefore it can help photosynthesis action.
- Light System - On the basis of 50,000 Lux, it can additionally produce light source and wavelength according to the purpose, and an illumination meter is mounted and the brightness of the light is adjustable in 7 steps other than simply ON/OFF type
- It has self-testing function at the initial power input therefore it informs of any error by checking the equipment.
- Up/down Slope time adjustable- The temperature rise time and the temperature drop time are adjustable. If the temperatures to stop, culture, keep and store are set after the end of program, it can continuously operate by reaching to the set temperature (Option)



■ DS-59M5 (order made)

(in) 1500 x 1000 x 2070 x 5room (3105 L x 5room)
(out) 9500 x 1590 x 2840(WxDxH)mm

실내모습

