

## PLANT GROWTH CHAMBER

Plant Growth chambers provide a controlled environment required for plant research. A plant's response to different conditions can be monitored or a particular habitat imitated. This facility allows the researcher to access most of the climatic conditions prevailing in the world at the same time eliminating the variability found in nature. These growth chambers are useful for all types of plant related research including plant breeding and genetic research, photosynthesis, nutrition, and other aspects of plant pathology, entomology, physiology, etc. Standard propagation techniques can be greatly speeded up using a growth cabinet as well as achieving a higher success rate. Where micropropagation is being used a growth cabinet is essential for rooting the plantlets and adapting them to normal conditions. This plant growth cabinet is ideal for all routine propagation and research applications.

### Salient Features

- Double walled construction with inner chamber made of stainless-steel SS and outer chamber made of mild steel duly powder coated.
- Solid see thru double walled door and a full view inner plexi-glass door enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- Keyed door lock for improved security with magnetic door gasket.
- User – oriented design of shelves makes you adjust each space of shelves without difficulty.
- PUF thick insulation to ensure temperature stability & reduced energy consumption
- Microprocessor based PID temperature & humidity indicator cum control
- Specially designed controller for audio visual deviation alarm from the preset temperature, door open alarm.
- The cooling is effected by a hermetically sealed CFC FREE ECO FRIENDLY COMPRESSOR.
- Designed air flow system ensuring uniform temperature & humidity distribution
- SS water reservoir with immersion type heaters at the bottom provides 40% to 95% humidity
- Illumination with the help of fluorescent lamps/tubes accounts for artificial daylight conditions
- 5 levels light control (0%, 25%, 50%, 75% and 100%)
- PT-100 temperature sensor (resolution 0.1°C)
- Capacitive type humidity sensors
- It works on 230V AC.
- Unit mounted on castor wheels for ease of mobility



CODE	Capacity (Liters)	Internal dimension (WxDxH cm)	Max Illumination	Temperature range & accuracy	Humidity RH% control & accuracy	Digital timer
PGC-110	110	45x45x55	15000	15 to 60°C ±1.5°C	40 to 95 % ±5%	1-99 hrs
PGC-180	180	50x50x72	20000			
PGC-270	270	55x55x90	20000			
PGC-380	380	60x60x105	35000			
PGC-500	500	65x65x120	35000			
PGC-700	700	70x70x143	35000			

CODE	Capacity (Liters)	Internal dimension (WxDxH cm)	Max Illumination	Temperature range & accuracy	Humidity RH% control & accuracy	Digital timer
PGC-110	110	45x45x55	15000	15 to 60°C ±1.5°C	40 to 95 % ±5%	1-99 hrs
PGC-180	180	50x50x72	20000			
PGC-270	270	55x55x90	20000			
PGC-380	380	60x60x105	35000			
PGC-500	500	65x65x120	35000			
PGC-700	700	70x70x143	35000			

### Optional

- 7 days circular CHART TEMPERATURE RECORDER
- IN built mini PRINTER TO PRINT TEMPERATURE & HUMIDITY
- RS 232 COMMUNICATION PORT TO INTERFACE CHAMBER DIRECTLY TO COMPUTER FOR STORING DATA & PRINT
- PLC CONTROLLED EQUIPMENT WITH TOUCH SCREEN COLOUR DISPLAY HMI
- MOC OUTER body ± SS
- Audio VISUAL POWER FAILURE ALARM
- ELECTRONIC digital VOLTMETER
- IN built VOLTAGE STABILIZER
- PROGRAMMABLE PID TIME INTERVALS CONTROLLER FOR TEMPERATURE, HUMIDITY AND LIGHT LEVEL CONTROL.

