# PLANT GRWOTH CHAMBER

Plant Growth chambers provide controlled environment required for plant research. A plant's response to different conditions can be monitored or a particular habitat imitated. Standard propagation techniques can be greatly speeded up using a growth cabinet as well as achieving a higher success rate. Where micro propagation 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.

## SAILENT 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
- Micro processor 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


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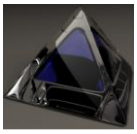



## SPECIFICATION

| Model | SAII-PGC-110 | SAII-PGC-180 | SAII-PGC-270 | SAII- PGC -380 | SAII- PGC -500 | SAII- PGC -700 |
|---|---|---|---|---|---|---|
| **Capacity (Liters)** | 110 | 180 | 270 | 380 | 500 | 700 |
| **Internal dimension (WxDxH cms)** | 45 x 45 x 55 | 50 x 50 x 72 | 55 x 55 x 90 | 60 x 60 x 105 | 65 x 65 x 120 | 70 x 70 x 143 |
| **Max Illumination** | 15000 | 20000 | 20000 | 35000 | 35000 | 35000 |
| **Temperature range & accuracy** | 15 to 60°C ±1.5°C | | | | | |
| **Humidity RH% control & accuracy** | 40 to 95 % ±5% | | | | | |
| **Digital timer** | 1-99 hrs | | | | | |

**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.


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