

# Plant Growth Chamber



Plant growth chambers are special type of environmental test chambers which are designed to perform plant growth experiments inside laboratory. The aim of a plant growth chamber is to create such atmospheric conditions responsible for effective plant germination and growth. In such chambers or cabinets, humidity, temperature and lights are controlled in such a way that you can create desired environment essential for examining growth of a particular plant.

Plant growth chambers and plant growth are widely used in agriculture fields in order to do research on crop productivity. Plant related agriculture research and development are the prime applications of these units; plant breeding, plant nutrition, photosynthesis are some of areas where plant growth chambers play an important role. Plant categories may vary such as cereal, arabidopsis, algae, tobacco, physcomitrella, fungi, medicago, weeds, soybeans, potatoes and other commercial crops and horticulture plants etc.

## Key Features

- The unit has outer wall made of MS Sheet duly epoxy powder coated and inner wall made up of heavy gauge SS Sheet
- Besides outer double walled door, a full view inner plexi glass door allows inspection of test samples without disturbing the inner chamber conditions
- Unit is supplied with 3 adjustable perforated shelves
- Temperature Range from 5°C to 50°C ± 1°C is controlled by Dual Setting Microprocessor based PID Digital Temperature Indicator-cum-Controller so as to set two different temperatures for Day and Night
- Exterior illumination with fluorescent tubes fitted on both sides of the chamber accounts for artificial day light, and the cyclic illumination conditions are regulated by Automatic 0-24 Hr. timer
- When all the tubes are ON temperature from 15°C to 50°C ± 1°C can be obtained
- Fitted with Solid State Digital Humidity Indicator cum Controller to control humidity from 55% to 95% at cool temperatures
- Light intensity can be adjusted according to requirement
- Arrangements for increasing the humidity is provided and not for decreasing
- Unit is fitted with Hermetically Sealed Compressor



## Specifications

Cat No.	BB-PGC-06	BB-PGC-12	BB-PGC-20
<b>Inner Dimensions (WxDxH) mm</b>	500x500x830	650x550x900	775x775x900
<b>Capacity</b>	171 Ltr	320 Ltr	540 Ltr
<b>Temperature Range</b>	5°C to 50°C ± 1°C		
<b>Humidity</b>	55%-95%		
<b>Timer</b>	0-24 Hour		