

ADVANCE -SERIES

# PLANT GROWTH CHAMBER (ADVANCE)



## MODEL : MGC (ADVANCE)

### TECHNICAL SPECIFICATIONS

- Plant Growth Chamber is aesthetically design with most latest technology and software.
- Touch Screen HMI TFT Display with PLC having 4 Programme upto 10 steps (total 40 steps) steps for each profile to control each parameter such as temperature, humidity & illumination individually, for day and night .
- Inside chamber of heavy gauge stainless steel 304 with SS trays. Outer body of mild steel, powder coated.
- Audio visual alarm for all three parameters of light, temperature & humidity with manual set option for the limit.
- Programmable auto simulation of all parameters (Light, Temperature & Humidity) same as like environment; inside the working chamber to grow plants like in nature.
- User friendly programme for complete control of all/any parameter during the experiment.
- Double wall door with observation window.
- Specially designed compressor technology to get stable humidity in respect to the set temperature.
- Three step illumination controlled through PLC to control the photoperiodic cycle of the chamber 24x7 with automated day-night natural simulation system. The result gives broad based light spectrum ideally suited for plant growth.
- High accuracy with advance technology for humidity and de-humidity control. The triple walled back of chamber provided with air circulation fans for uniform maintenance of the temperature & humidity throughout the chamber.
- High Temperature protection to protect the samples by auto shut down the unit.  
Temperature range 5°C to 60 ±0.5°C accuracy (Light Off) and 15°C to 60 ±0.5°C accuracy (Light On) with humidity 45% to 95 ±3% to 5% RH
- Data logging of temp. & humidity with date & time in internal memory and can be transferred to USB pen drive. Option for screen shot, web interface with complete operation from any other PC/ Laptop (through static IP)
- Suitable number of LED lamps to provide illumination from both sides.
- The system is supplied with heavy duty wire mesh stainless steel trays.



# PLANT GROWTH CHAMBER

## MODEL : MGC

### TECHNICAL SPECIFICATIONS

Inside made of Stainless Steel 304 quality outside Mild Steel duly powder coated. Fitted with cooling, heating, humidity and lighting arrangement. Temperature range. 5°C to 60°C ± 1°C. Temperature can be obtained from 15°C to 60°C ± 1°C., when all lights from two sides are 'ON'.

Temperature is controlled by microprocessor temp. & humidity controller. Different temp. & humidity can be set in °C and % RH. The cycles can be repeated as desired. Interior illumination is control by cyclic digital timer for setting day & night cycles.

Above Growth chamber is complete with Humidity control from 45% to 95% ± 3% RH.

The humidity is maintained by stainless steel water tank with heater & blower, fitted at the bottom of the chamber. Cooling by refrigeration system placed below the chamber and heating by ss tubular heaters.

Provided with heavy duty wire mesh stainless steel trays.



MODEL : MGC-20

MODEL	(W x H x D) mm	CAPACITY	STABILIZER (KVA)	SHELVES
NHD.21!d21B	681!y!986!y!661	386!MJ!d21!Dv!IGu	4	4
NHD.31!d31B	886!y!11!y!886	651!MJ!d31!Dv!IGu	5	5
NHD.41!d41B	946!y!2311!y!946	951!MJ!d41!Dv!IGu	6	6

### OPTIONAL :

1. Surge tank of capacity 100Ltr. made of plastic having water circulation pump & automatic water filling arrangement to fill the humidity tank automatically. This ensures uninterrupted operation of the chamber for 4 to 5 days.
2. Voltage Stabilizer.