

PLE-105 ILLUMINATED PLANT GROWTH CHAMBER

Pooja illuminated Plant Growth Chambers are non-detachable and designed to create duplicate natural conditions within the chamber are available in two versions i.e. non-GMP and GMP choose from 5 different models are facilitate many application such as botanical and agricultural research including seed germination studies, plant pathology, plant tissue culture, plant genetic research, shelf life testing, chromatography test, plant growth studies, microbiological propagation, biotechnology and more.

These chambers are equipped with latest Microprocessor based controller. Temp. Range: 10 to 50 deg. C \pm 2 deg. C. and humidity range: 40% to 95% \pm 3%. Temperature uniformity will be \pm 3 deg. And RH will be 5%.

MOC in non-GMP inner chamber and trays are corrosion resistance SS-304 and exterior is MS powder coated and in GMP inner chamber and trays is SS-316 and exterior is SS-304. High density CFC FREE PUF insulation ensures absolute insulation and energy conservation.

Double walled metallic insulated external door provided with full-length gasket for proper sealing with lock and key. Door is designed in such away that all condensate on inside wall will drain to inside the work space and special care is taken for it. One porthole with rubber bush closer for validation application and two trays made out of SS wires and provided at an adjustable height.

Hermetically sealed heavy-duty industrial quality higher capacity refrigeration system coupled with forced air evaporation and air-cooled condenser. A partition is provided for air circulation. It is designed in such away that during maintenance, circulating fan, dry heaters, cooling coil etc., are easily accessible. Refrigeration system and controls systems are provided at top. All required operator controls provided on operator front panel. All controls like contactors, over load relay, solid state relay, MCB, water level controller etc. are mounted on Bakelite sheet and complete assembly is mounted inside the control panel. Control panel also indicates status of humidification system, heating, cooling etc.

Standard SS jacketed heating elements deliver long life and efficient heating and an automatic over temperature safety limit prevents excessive temperature and possible damage to work load or equipment. A uniform air distribution system sweeps the chamber walls to insure constancy of chamber environment providing gentle air flow in the product area.

Humidity is generated by means of heater based Humidity Generator with water level controlled water reservoir. Steam is conducted into the inner chamber by means of conduits from the Humidity Generator. Water failure protection is an additional safety device provided with a view that it will cutoff boiler heater supply to safeguard the equipment and it starts automatically when the water supply resumes.



ILLUMINATION:

Special daylight fluorescent tube lights fixed on both vertical inner chamber to get maximum light in product area. Higher capacity cooling system provided to take care of reduction of temperature during the day and night cyclic test while using illumination and it won't disturb relative humidity in the work space. Light intensity will be 10000 LUX at 30cm distance.

Model No.	Capacity ltrs/cu.ft	No. of door	Interior dim. WxDxH inches/mm	External dim. WxDxH inches/mm (approx)
PG-01	285/10.00	1 No.	24x24x30(0610x0610x0762)	34x45x54(0864x1143x1372)
PG-02	356/12.50	1 No.	24x30x30(0610x0762x0762)	34x51x54(0864x1295x1372)
PG-03	576/20.22	1 No.	24x28x52(0610x0711x1321)	34x49x75(0864x1245x1905)
PG-04	802/28.12	1 No.	30x30x54(0762x0762x1372)	40x51x77(1016x1295x1956)
PG-05	1012/35.52	1 No.	30x33x62(0762x0838x1575)	40x54x87(1016x1372x2210)

OPTIONAL ACCESSORIES FOR ANY OF THE ABOVE:

Additional tray

PRE-INSTALLATION REQUIREMENTS FOR PLANT GROWTH CHAMBERS ARE:

Stabilized and unobstructed power supplies of 230 volts 50Hz AC single-phase 35 amps with MCB and proper earthing within the radius one meter from the installation. To be installed in an air-conditioned room or in across-ventilated, dust free and clean environment with two feet free space around (Room temperature should be below 30deg.C.). Zero level flooring and floor level drainage within the radius of one meter from the installation. Continuous DIM or distilled water supply line of 1/2" BSP with nipple valve connection within the radius of one meter from the installation.

OTHER PRODUCTS INCLUDES:

Chromatography refrigerator; Pharmaceutical refrigerator B.O.D. Incubator; Lab model Ice Flaker (crushed ice); Stability Chamber (humidity chamber); Freezer cum Refrigerator; Deep Freezer minus(-)80°C in-vertical or horizontal ; Deep Freezer minus(-)40°C in-vertical or horizontal; Deep Freezer minus(-)20°C in-vertical or horizontal; Incubator Shaker with cooling & heating; Cryostat Bath(Chiller); Plasma Freezer; Vertical bacteriological Incubator (microbiological incubator); Vertical Laboratory Oven; Walk-in Stability Chamber; Walk-in Cold Chamber/room.

Pioneer's in services to Science, Technology & Industry. Most innovative and reliable partner in India's Biotech Revolution



PoojaLabEquipments

Mfrs. of: Scientific Instruments & Equipments

22, Gr. Floor, Bhandup Indl. Estate, Pannalal Compound, LBS Marg, Bhandup (W),
Mumbai-400078 Tel.: 25968723/25968549/67987938 /25968546

E-mail: poojalabequipments@yahoo.in Website: www.poojalabequipments.com