



PLE- 106 STABILITY CHAMBER

25° C 60% RH      30°C 65% RH      40°C 75%RH

Pooja Lab has a range of different capacities of Stability Chambers with temperatures range from 20°C to 60°C, and humidity range of 40% to 95% RH. (Temp. accuracy ± 0.2°C Temp. Uniformity ± 1°C and Humidity accuracy ± 2% RH Humidity uniformity ± 3% RH) The chambers are specifically designed as per the ICH guidelines, (The International Conference of Harmonization of technical requirements for registration of pharmaceuticals for human use) and are manufactured as per GMP regulations, so that it meets the terms for stability testing of new drug substances and products. For drugs indented to be stored in a refrigerator or freezer please refer our Pharmaceutical / Medical Refrigerator or Deep Freezers. Choose from five models, size available in non-GMP and GMP version.

**STABILITY CHAMBER CONSTRUCTION:** MOC in non-GMP version interior and Shelves are corrosion resistant SS-304 mirror finish and exterior is MS powder coated and in GMP version interior and shelfe are SS-316 mirror finish and exterior is SS 304 mat finish. High density CFC free insulation ensures absolute insulation and energy conservation. Metallic double walled insulated external door with full-length magnetic gasket for proper sealing, lock and key. Thru-wall validation port with rubber bush. 2 No's of trays provided with unit at an adjustable height. For easy mobility the entire unit is mounted on caster wheels. GMP version with IQ, OQ, PQ, & DQ documentation complete with reports, calibration and test certificate.

**FORCED AIR CIRCULATION** 2 Nos. of motorized blowers are fitted to maintain consistency of air distribution that sweeps the chamber walls and assure steadiness in the chamber environment providing gentle airflow in the product area (for 90 ltrs & 170 ltrs. 1 No. only). Easy accessibility during maintenance, as the circulating fan, dry heaters, cooling coil etc. Are nicely fitted.

**HEATING & COOLING** For long-life and efficient heating, U shaped SS jacketed heating element is provided and an automatic over temperature limit prevents extreme temperature and likely damage to the workload or equipment. Higher capacity industrial cooling system provided to take care of reduction of temperature during the operation of high humidity and it won't disturb the set temperature/RH. Refrigeration system with hermitically sealed super performance and trouble free compressor coupled with air-cooled condenser and forced air evaporation using latest refrigeration technology (CFC-Free Eco Friendly) to maintain gentle airflow in the product area, a uniform air distribution system sweeps the chamber walls, thereby maintaining steadiness in environment.

**HUMIDITY GENERATION** Humidity is generated by means of heater based humidity generator with float valve controlled water reservoir. Steam is conducted into the inner chamber by means of conduits from the Humidity Generator For flawless performance, a water failure protection, an additional safety device is fitted, by considering that the wet heater supply will discontinue in case the water supply fails and it starts automatically when the water supply resumes.

**CONTROL SYSTEM:** Microprocessor based PID controller with direct display of SET and Process value of temperature and humidity. Control panel consists of MCB for mains, dry heater, wet heater and compressor with indication lamps. Non-volatile memory to allow chamber to return to original set point when power is restored in the event of power failure.

ADDITIONAL SAFETY SYSTEMS PROVIDED WITH STABILITY CHAMBERS

Magnetic Float switch to cut-off the boiler supply in case of low water level in the boiler. Safety time delay and built-in over load protection for compressor. Safety thermostat to cut-off heater power supply in case of temperature exceeds to 65°C.

PRE-INSTALLATION REQUIREMENTS

Stabilized 230V 50Hz AC single-phase 25amps power supply with MCB and proper earthing within the radius of one meter from the installation. One feet free space around for installation in an air-conditioned or in a cross ventilated, dust free and clean environment. (Room temperature should be below 30 deg. C) Zero level flooring and floor level drainage within the radius of one meter from the installation. Continuous DM or Distilled Water Supply line ½" BSP with nipple valve connection within the radius of one meter from the installation.

OPTIONAL ACCESSORIES

SS water storage tank. Additional trays etc.

**Note:** Bigger models available on request.

Model No.	Capacity ltrs/cu. ft	Interior dime. W x D x H mm	External dime. W x D x H mm
PSC - 01	092/03.22	(0450 x 0450 x 0450)	(0577 x 0869 x 1034)
PSC - 02	176/06.18	(0500 x 0500 x 0700)	(0627 x 0919 x 1284)
PSC - 03	274/09.61	(0550 x 0550 x 0900)	(0677 x 0969 x 1484)
PSC - 04	320/11.44	(0600 x 0600 x 0900)	(0727 x 1019 x 1484)
PSC - 05	510/17.89	(0610 x 0711 x 1168)	(0737 x 1130 x 1778)

**NOTE:** Specifications are subject to change because we design and manufacture products according to clients requisite.

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.

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Pooja Lab Equipments

Mfrs. of: Scientific Instruments & Equipments

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