

PHOTO STABILITY CHAMBER



A Photostability Chamber is a specialized environmental chamber used to test the effects of UV and LUX light. By simulating natural and artificial light conditions, these chambers help manufacturers assess the stability, degradation, and shelf life of products exposed to prolonged illumination.

KEY FEATURES

- Constructed and fabricated on fully automatic CNC machines.
 - Automatic Cycle Cut off After complete the study of UV & LUX
 - Chamber interior is designed with dull or mirror finish stainless steel.
 - Fluorescent Tubes for daylight effect and UV tubes for ultraviolet ray in accordance with the ICH guidelines.
 - External finish manufactured with Stainless Steel for GMP model and G.I powder coated for the standard model.
 - The internal of the chamber is water and vapor tight with High Grade stainless steel.
 - Seams are arc-welded for strength & durability.
 - Chambers are regulated with air circulation, heating & cooling, UV & Lux Light, humidity generator system.
 - Double Door system with outer door insulation. The inner Glass door offers full internal visibility. Doors sealed with silicone gasket along with Lock & key feature.
 - Easily accessible Control Panel with electrical switchgear & refrigeration mounted on top.
 - Mounted on heavy castor wheels for easy movement.
 - Adjustable Stainless Steel electro polished Perforated/wire mesh type trays also easy to clean
- As per ICH-Q1B Guideline for Confirmatory studies, sample should be exposed to light providing an overall illumination of not less than 1.2 million lux per hours and an integrated near ultraviolet energy of not less than 200 watt hour/square meter to allow direct comparison to be made between drug substance & drug product.

TECHNICAL SPECIFICATION

MOC	: Stainless Steel 304 Grade /Stainless steel 316
Temperature Range	: 20°C-60°C
Temp Accuracy	: ±0.5°C/±2.0%RH
Humidity Range	: 40%RH-95%RH
Humidity Accuracy	: ±2%RH - ±3%RH
Uniformity	: ±1°C/3.0%RH
Illumination	: 1.2 Million LUX Hours
Cooling	: R 134A with CFC-Free Copeland Condenser
Control Panel	: 7" HMI with TFT LCD Colour touch screen / Microprocessor Based PID controlled
Safety features	: High temperature protection cuts, Electric surcharge cutoff relay for compressor Time delay for compressor switch ON, Electric circuit breaker
Supply	: 220/230 Volts Single Phase 50 Hz

AVAILABLE SIZES

Model No	Internal Dimension				No. Of Tray
	Capacity (Litre)	Width	Depth	Height	
PTE- PSC612 A	100 Ltrs	450 mm	450 mm	450 mm	1
PTE- PSC612 A	220 Ltrs	600 mm	600 mm	600 mm	2
PTE- PSC612 B	336 Ltrs	600 mm	600 mm	900 mm	2
PTE- PSC612 C	400 Ltrs	600 mm	600 mm	1100 mm	2

OPTIONAL ADD ONS

- Software (21 CFR PART-11 Compliance).
- Stand by Cooling System.
- Stand by Humidity System.
- Scanner (4 Temp. +4 RH for Online Monitoring Purpose).
- GSM Alert System.
- Security Alarm System.