

# Ozone Test Chamber



## Product Info :

Ozone test chamber brings high advancement in weathering evaluation methods by recreating the defined ozone filled atmosphere that helps in the evaluation of behaviour and quality of rubber products. The machine is equipped with high-tech features that help the user in assessing the effect of years of ozone exposure within a few minutes.

Rubber products are an essential part of many industries. Be it an end product or the components and parts of a machine, rubber is used in a wide variety of industries for critical applications.

Hence it is important to produce a high grade and finest quality rubber that can be used in every product and is flexible for the manufacturer to produce. Also, it should be tough enough to retain its properties under Harsh environmental conditions.

In the majority of the applications, the rubber is exposed to extreme weather conditions and that too for long periods. Several factors affect the quality of rubber-like radiation, UV light, exposure to water, rain but Ozone in the atmosphere is one factor that if rubber gets exposed for longer can result in the breaking down of polymer chains, damaging the properties of a Rubber material. Disturbance in the properties of a Rubber can result in the development of cracks in the material and opening gate to other factors for further damage and product failure.

The Ozone test chamber is used for testing the behaviour of rubber materials when it is exposed to Ozone for a significant time period so that the manufacturers could evaluate the performance of the product way before its intended use.

## TECHNICAL DATA :

- Model Number: PC-OZ-14
- Test Chamber Volume: 125 Lt
- Ozone Monitor: Microprocessor-based LCD Screen
- Precision based Digital Temperature Controller
- Ozone Sensor Type: Electro-Mechanical
- Temperature Range: Ambient to +70°C
- Temperature Accuracy:  $\pm 2^{\circ}\text{C}$
- Humidity Range: Ambient to 95%RH
- Ozone Concentration: 50 to 1000 PPHM
- Timer: Upto 999 Hours
- The rotational speed of sample holder: 5 rpm
- Dynamic Pull Frequency: 60 Pulls per min.
- Internal Dimensions (W x H x D): 500mm x 500mm x 500 mm
- Test Gas Flow Rate: 1 to 5 Litres per minute
- Inner Chamber Material: SS 304
- Outer Chamber Material: MS Powder Coated
- Type of Test: Static & Dynamic testing allowed
- Ozone Diffuser: Yes, Enabled
- Power Supply Requirement: Single Phase, 230 V AC, 50Hz

## FEATURES :

- An advanced insulation system ensures no heat passes through the chamber and disturbs the testing environment.
- Static and dynamic test setup allows the user to conduct a wide variety of tests for distinct materials.
- The chamber can recreate environmental conditions with Dew drops, rain, UV radiation and an Ozone atmosphere.
- It can give the result of weathering effects for years within a few minutes of test cycles. These are called accelerated testing procedures.

## Our Valuable Customer



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