Ozone Test Chamber Guide with Features and Specificaiton

Effective Lab India

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Project Overview

Ozone Test Chamber

Introduction

The Ozone Test Chamber is a specialized environmental testing equipment designed to simulate and analyze the effects of ozone exposure on various materials, including rubber, plastics, and coatings. This chamber is essential for industries that require durability testing under ozone-rich conditions.

The Ozone Test Chamber by Effective Lab India is a reliable and efficient solution for conducting ozone resistance tests. Its advanced features and user-friendly design make it an essential tool for quality assurance in various industries.

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Specifications

Model	SM-150CY
Temperature range	25℃～60℃
Ozone concentration	50～1000pphm or100～300ppm
Temperature fluctuation	±0.5℃
Ozone control precision	±10%
Sample frame speed	360 Rotate the sample frame (Rev. 1 RPM)
Controller	Color LCD touch screen controller
Time Unit	H．M．S．selectable up to 9999h

Ozone concentration analysis	Inlet concentration analysis regulator， 4 ~ 20mA output
Ozone generator	high voltage silent discharge point tube
Acquisition system	imports of South Korean imports of programmable controllers, measuring module
Heating system	completely independent systems, nickel-chromium alloy electric heating water heater
Ozone concentration	the British ozone concentration sensor with a standard signal output and sampling
Ozone generator	silent discharge type ozone generator has a low noise and high purity
Material	**Stainless steel interior and exterior**

Features

- Air circulation device: built-circulation duct, test gas flow evenly from top to bottom parallel to the specimen surface, in line with the national standard.
- Setting mode with a touch of a button for ease of use.
- Combines both ozone concentration and temperature control in one unit.
- Streamlined design with all necessary components integrated, reducing the need for additional equipment.
- Built with high-quality materials and components to ensure long-term reliable performance.
- Clear and bright LED display for easy reading of all parameters.
- Temperature: Accurate to 0.1 °C.
- Humidity: Accurate to 0.1% RH.
- Ozone Concentration: Accurate to 1 pphm (parts per hundred million).
- Utilizes Proportional-Integral-Derivative (PID) control for precise regulation of temperature and ozone concentration.
- Electromagnetic air pump to provide quality air, oil-free dry gas system to ensure the reliability of long-term work.
- Ability to control and maintain humidity levels within the chamber.
- Adjustable ozone concentration levels to meet specific testing requirements.
- Designed for simplicity and ease of operation, making it accessible even for users with minimal training

How to Operate the Ozone Test Chamber

Initial Setup

1. **Installation**: Place the chamber on a flat, stable surface and ensure proper ventilation.
2. **Power Connection**: Connect the chamber to a suitable power source as per the specifications.
3. **Calibration**: Calibrate the ozone sensor and temperature controls before starting tests.

Operating Procedure

1. **Sample Placement**: Place the test samples inside the chamber, ensuring they are properly spaced.
2. **Set Parameters**: Use the touchscreen interface to set the desired ozone concentration, temperature, and test duration.
3. **Start Test**: Initiate the test and monitor the chamber's performance through the interface.
4. **Data Logging**: The chamber automatically logs data, which can be exported for analysis.

Safety Precautions

- Always wear protective gear when handling ozone.
- Ensure the chamber is properly ventilated to avoid ozone accumulation in the workspace.
- Regularly inspect the chamber for any signs of wear or damage.

Maintenance

- **Regular Cleaning**: Clean the interior and exterior of the chamber to prevent contamination.
- **Sensor Calibration**: Periodically calibrate the ozone sensor to ensure accurate readings.
- **Component Check**: Inspect and replace any worn-out components as needed.

Effective Lab India

Contact Number: +91 9555515525
Address: Plot no. 65, Jeevan Nagar, Part-2, Sec-54, Faridabad, Haryana 121005

Email: info@effectivelabindia.com
Website: www.effectivelabindia.com