

UV Carbon Arc Weathering Tester

This laboratory instrument accelerates the effects of outdoor weathering on materials. It utilizes a carbon arc lamp to produce intense UV radiation and precisely controls temperature and humidity for accelerated aging tests.



ADDITIONAL IMAGES



Overview

Accelerated Weathering Simulation

This UV Carbon Arc Weathering Tester is designed to simulate the damaging effects of outdoor elements, including sunbeam, ozone, rain, snow, temperature, and humidity. By accelerating these natural conditions, the device enables researchers to quickly identify material degradation such as discoloration, deformation, and loss of structural integrity. It serves as an essential tool for quality control and R&D in industries ranging from aviation and automotive to plastics and coatings.

Key Features

Technical Advantages

- Carbon dust suction and odor discharge systems
- Automatic secondary voltage detection
- Servo-controlled current adjustment
- Combined spray and ultrasound-assisted humidification
- Condensation promoting mechanism to enhance reproducibility
- High-life carbide components
- Borosilicate glass windows for accurate light simulation

Industry Applications

Compatible Industries

Aviation, Coating Industry, Automotive, Textile Industry, Dyestuff Industry, Plastic Industry, Construction

Certifications

Quality Standards

CE Certified • ISO 9001:2000 • SGS Verified