

# UV Aging Test Chamber

UV Aging Test Chamber adopts fluorescent ultraviolet lamps that can best simulate the UV spectrum in sunlight, and combines temperature control, humidity supply and other devices to simulate the sunlight, high temperature, high humidity, condensation, dark cycle and other factors that cause damage to materials such as discolouration, brightness, loss of strength, cracking, peeling, chalking, oxidation and other damages, and at the same time, through the synergistic effects of the UV light and moisture to make the material's ability to withstand light or humidity weakened or invalidated, and thus is widely used in the evaluation of the material's weather resistance performance. Such as automotive, paints and coatings, plastics, textiles and fabrics.



## Specification:

Temperature Range: RT+10°C~70°C  
Temperature Uniformity:  $\pm 3^{\circ}\text{C}$   
Temperature Fluctuation:  $\pm 0.5^{\circ}\text{C}$   
Humidity Range:  $\geq 75\% \text{RH}$   
Distance Between The Center of The Lamp: 65~70mm  
Spicemen Center And Lamp: 55mm  
Ultraviolet Lamp: UV-A 340  
Wavelength: 320-400 nm (domestic)  
Standard Spicemen: 75×150mm  
Irradiation Intensity: 0.55 ~ 1.0W / C m<sup>2</sup> within adjustable.  
Spray System: Spray water for 18 minutes, and stop spraying for 102 minutes. Besides, you can set the time.  
Test Cycle: Usually, UV irradiation at high temperatures and dark humid condensation cycles with 100% relative humidity.  
Studio Size: 450×1165×500mm (Depth × Width × Height)  
External Dimensions: D600×W1325×H1480mm  
Inner Liner Material: SUS304 Stainless Steel Plate  
Shell Material: SUS304 Stainless Steel Plate  
Lamp: UVA-340 UV Lamp, Two Rows Of 8, 40W/Only (8 In Total) (Q-Lab, Usa)  
Water Source And Consumption: Clean Water Or Distilled Water 8 Liters / Day (Customer To Provide)  
Control System: The Company's Own Research And Development Of Touch Screen PLC Controller  
Main Components: Omron And Chint

## Features:

**One Machine Multi-purpose, Wide Range of Applications:**

It can be applied to coatings, inks, paints, plastics, adhesives, the automobile and motorcycle industry, cosmetics, metals, electronics, electroplating, pharmaceuticals, pigments, fabrics, plastics, and other industries.

**Full Energy-saving State Operation, Energy Saving and Power Saving:**

Environmentally friendly refrigerant fine control of the flow rate to realize the operation of the full energy-saving control. Reduce power consumption through temperature and humidity balance control, energy saving, and environmental protection.

**Customized Service:**

As a UV test chamber manufacturer, we can provide the OEM UV weather test chamber. If you have special requirements, such as UV aging capacity, required specifications, quality control measures, production capacity and any other relevant factors, please contact us. We can manufacture test chambers according to your requirements.

## Standards:

GB/T14522-93 National Standard of the People's Republic of China "Plastics, Coatings, Rubber Materials for Mechanical Industrial Products, Accelerated Test Methods for Artificial Climate".

GB/T16422.31997eqv ISO4892-3:1994 "Plastic laboratory light source exposure test method".

This product conforms to the standard: GB/T 14522-93, ASTM G 154, ISO 4892-1, ISO 11507 ASTM D 4329.

**3 Major Devices Real Simulation of Environmental Climate:**

UV lamps: 8 UV lamps, simulating the sun irradiation.

Heating: including heating module, simulating high temperature situation.

Rain: pinhole spraying system, simulating the rain effect.

**Realistic Simulation of Sunlight, Rain and Dew, Damage to Various**

**Materials:** It only takes a few days or weeks to reproduce the damage that takes months or years to occur outdoors. Including fading, discoloration, loss of brightness, chalking, cracking, blurring, embrittlement, oxidation and loss of strength.

**3 Wide Design, No Fear of Challenges:**

**Voltage Versatility:** Different regions with different voltages can operate normally. **Humidity Adaptability:** Whether desert or rainforest, our technology remains effective in diverse environmental conditions.

**Temperature Resilience:** To cope with the global climate, no fear of heat and cold can operate stably.

## ChiuVention INSTRUMENT LTD

As one of the climate chamber manufacturers, we are confident that we can solve various things for our customers. Please feel free to purchase our environmental test chamber or connect with us.

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