

UV Aging Test Chamber

Operator's Manual

Before operation this machine, please read this manual thoroughly, and keep a copy with the machine for future reference. This manual is to be considered part of your machine.

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Foreword

Thank you for your chosen our company's products, we not only provide your company good quality products, and will provide reliable service.

To ensure the use of personnel safety and equipment integrity, before using this instrument ,please fully view this operation manual.

For the manual, do pay attention to the precautions on its use. This manual details the design principles of this instrument,according to the standard, construction, operation specifications, calibration, maintenance, possible faults and remedy the situation, electrical plans, etc.

If in the manual mentioned in the various "test rule ", the standards are for reference only, if you have any objection please review standards or information by your own.

Note : sometimes we improve on some mechanical parts for better performance of equipment , which may have operating system not consistent with the usage guidelines in some detail. At the time of writing of this manual, we may have mistakes and omissions, please be more inclusion and welcome all of your comments and suggestions.

Special notes:

- This manual can not be the basis for any requirements.
- We reserve the right for this operating manual.

I. Summary

This device is suitable for the accelerated aging test by exposing to light and water. It is used to predict relative durability of paint, coating, plastic and other non-metallic materials. It is suitable for observing physical properties of durable materials especially, such as gloss reduction, haze, strength reduction, pulverization, cracking, blistering, embrittlement and faded, etc.

Like other accelerated tests in laboratories, we can't use the test result of this device replace natural exposure to determine actual durable time of materials. But this device is relatively practical on assessing the anti-aging performance of materials rapidly, selecting or improving the new and old formulas, monitoring the quality of products by providing the contrastive experiment conditions.

Ultraviolet light is the main light factor result in durability reduction of outdoor products. Combine with fluorescent tubes possess stable spectral energy distribution and low price, ultraviolet aging test chamber becomes the most popular test chamber in the world because of its quick, convenient and economical advantages.

Because water is an important factor of accelerating aging. This device adopts the way of water spraying to simulate the effect of moisture. It can close to some environmental conditions of final use by setting the spray time, such as temperature change or rain wash result in mechanical erosion.

This model can also adjust the rate of photochemical reactions by temperature control mechanism in the appropriate range. To satisfy the durable demands of weather resistance tester, this device structures adopt corrosion resistant stainless steel materials widely. Its design is simple, easy to use and maintenance.

You can understand damages of materials in a short time and judge the quality gap between test products and reference samples as long as you pay low use cost.



Picture only for reference


External appearance and specifications are subject to change without notice in the interest of product improvement.

II.Notice

Safety Marks

In this manual, on the security precautions and the use of the instruments of the show the following important issues, in order to prevent accidents. Accidents and dangerous, be sure to adhere to the following danger, warning, pay attention to the narration:


DANGER:



This mark shows that the operator fails to comply may be harmed.


1.The warning and attention sign of instrument.

Dangerous:






This displayed item indicates that if you do not comply, the operator may be injured.

Notice:



The items shown here are indicated as potentially affecting the test results and quality.

2. On this instrument, the following marks indicate cautions and warnings.

	Warn Mark	This mark indicates where it is necessary to refer to the operation manual.
	Dangerous voltage mark	This mark indicates a high voltage hazard.
	Ground protection mark	The ground terminal is shown on this instrument.

Application Notice :

1. The eyes and skin are often exposed to ultraviolet light can cause burns or other changes, and ozone generated when the UV lamp lit, ozone of high concentration can cause human body unwell phenomenon such as headache, chest tightness, to prevent the occurrence of the above phenomenon, should pay attention to the ventilation and wear protective equipment.
2. In order to guarantee the safety of the equipment, please install the external protection agencies, and the power supply according to the requirements of product nameplate.
3. The equipment is strictly prohibited for inflammable, explosive, toxic, corrosive test of the item.
4. The non-professional personnel shall not remove, maintenance.
5. Equipment should be reliable grounding. Equipment failure, need to replace parts, please replace the same specifications of fittings.
6. The experiment it is forbidden to warehouse door open test.
7. Read the instructions before operating this equipment.

III. Technical Parameters

1. Studio size: 450×1170×500 mm
2. Temperature and humidity range: RT+10℃~70℃ ≥75%RH
3. Power: 220v/50Hz /±10% 4.5Kw (total power consumption)
4. Fluorescent UV lamp: UVA340/total 8 pcs/320W
5. Wavelength of UV lamp: 280~400nm
6. Standard sample holder: 75×150×1.5mm
7. Temperature control mode: PID

Normal running condition :

- Temperature:15 ~ 25 °C
- Atmospheric pressure: 86~106Kpa
- No strong vibration around;
- There is no direct sunlight or other sources of heat radiation;
- No strong airflow, the airflow should not to the tank directly when air need to forced- flow around;
- No strong electromagnetic field effect;
- No high concentration of dust and corrosive materials.
- To ensure the normal operation and easy to operate, please horizontal placed. At the same time, equipment, walls or implements,60cm space should be reserved for operation, maintenance and ventilation.

IV. Operating Instructions

Equipment operation:

1. Join humidification water: open the water storage tank inlet valve and water injection humidifying trough to identify tip position.
2. Fix the specimen in sample frame, if there is any vacancy should fill in tablet, and do a good job in frame gap sealing to ensure exposure conditions.
3. Enter the test home page, run in the fixed value setting screen choose test function, simulation of irradiating, condensation, spray, parameters such as time, cycle times. Set the program is run set parameters such as temperature, humidity, radiation images. (humidity size is used to simulate the condensation dew condensation environment speed, no other use)
4. Press the "Start" button after setting picture setting ends, in the press of a button click run equipment start at predetermined exposed way. According to the monitor screen into the show after the start.
5. In the experiment to interrupt test, can press stop button, the machine stops working.

Operation method:

1. Turn on the power supply.
2. Turn on the start button.
3. Set parameters of the touch screen.
 - (1)The touch screen displays the main menu once it is electric.
 - (2)Set parameters of the menu.
 - (3)Press the start button according to the operation screen then equipment starts to operate.
 - (4)Please turn off the power supply after test.

V. Maintenance

1. For the first time, when the phone is switched on due to water shortage protection could not be started because there is no water in the water storage tank, belongs to the normal phenomenon, please fill it up with water after the boot.
2. Equipment such as the PID calculation, please don't open the door, in order to avoid operation error. (before delivery have calculus, do not need again to calculus)
3. Pay attention to the water storage tank water level, water in time, in order to avoid equipment water shortage protection action, interrupt test.
4. Adjust the instrument parameters, such as in addition to the specification allows for change, never change.
5. Every time after the test, take out the test samples, clean the machine.

VI. Quality Assurance

I 、 **The guarantee period is twelve months (onsite service cost not included).**

II 、 **The main quality warranty maintenance certificate**

1. Please keep this guarantee letter, if you lost it, please connect with us in a month.
2. If this guarantee letter has been altered or it has no our stamp, it is useless.

III、 **The following conditions need to pay reasonably even in the assurance period.**

1. Natural reasons
2. Operating mistakes
3. Voltage is not fit for our operation instruction
4. Repack it without our guides
5. Damaged for borrowing to others
6. Damaged for authorized machine modification
7. Damaged for authorized calibration
8. Authorized transshipment mistake
9. Serve for long distance area

IV、 **Notes:**

1. Where the original in Guangdong province installation of our products, if the product moved to outside Guangdong-area use, whether or not within the effective warranty period, the transportation and travel expenses of the service personnel should be paid by the client.
2. All customers outside of Guangdong province, whether or not in the warranty period, the service of transportation and travel expenses paid by the customer.