



东莞中力仪器科技有限公司

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Add: No.62, Xinhe Management of Area, Wanjiang District, Dongguan, Guangdong, China

Introduction

**Name: ZL-6011A Xenon lamp weather-resistant testing machine
(vertical)**



Equipment summary:

Xenon lamp aging testing machine is a comprehensive climate testing machine, in addition to climatic aging test, the lightfastness of materials can be carried out to test, polymer materials exposed at simulated sunlight. It simulates the light, temperature, rainfall, condensing, humidity to test the materials; it can be used for choosing new materials, improving existing materials, or assessment of change in material composition;



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Main functions:

Make the samples exposed to the high temperature and alternating back to the circle of light and moisture environment to test the materials. This machine use xenon lamp tube to simulate the sunlight radiation, and use condensation water and spray water to simulate the dew and rain. This instrument only use a few days or weeks time, to realize the condition or the parts aging damage state in outside environment in few months or years. Including fade, color change, fracture, crack, wrinkle, foaming, embrittlement, strength reduction, oxidization and so on.

Main feature:

Xenon lamp test box (vertical climate resistance) the cold rolled steel sheet electrostatic pensu or high quality stainless steel sheet, the tank for high quality stainless steel plate. Radiation light source is the solar spectrum xenon lamp, automatically track irradiation intensity, precisely control the blackboard temperature, irradiation cycle, dark cycle, spray cycle all can set according to relevant test standards or customer's requirements . Xenon lamp box (desktop weather resistance test) according to the user's controller to choose imported touch screen control instrument or intelligent digital display controlling instrument.

Xenon lamp climate resistance test box with ultraviolet radiation sensors, it can amend the aging tube or any other changes in the light energy decrease in time. Ultraviolet radiation sensors allows you to select proper light irradiation during the test. Ultraviolet radiation sensors can monitor indoor light irradiation intensity continuously, and by adjusting the power of tubes, can accurately keep the irradiation intensity in operation value.

Water spray cycle can effectively simulate temperature changing and rain erode process. Because of the rain was often flush, coating layer of lumber(including paint and coloring), will have erosion phenomenon. Recent research results show that the rain layer washed the material itself thus the materials are directly exposed to UV and water . The rain spray function UV can reproduce such environmental conditions, and enhance some paint climate aging test.

Corresponding standard:

GB12831-86 Vulcanized rubber artificial climate (xenon lamp) Aging Test Method

GB/T1644.2-1999Plastics laboratory light exposure test method

GB/T8427-89 textile color fastness test, resistance to artificial light fastness xenon arc

GB/T8430-98 textile color fastness test, resistance to artificial light fastness xenon arc

GB/T1865-97 Paints, varnishes, artificial weather aging and artificial radiation exposure

GB/T16991-97 textile color fastness test,

GB/T5137.3-96 simulated climate test method of resistant to radiation, heat, humidity, burning

GB/T16259-96 color building materials, artificial climate accelerated aging test method.

GB/T2423.24-95 Electronic and Electrical Products Environmental Testing Part II: test method, testing SQ: Simulation of solar radiation on the ground

ASTM G155-05a Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials¹

Applicable industries:

Applied to control the product quality, such as electronic, plastic products, electrical appliances, instruments,



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food, vehicles, metals, chemicals, building materials, aerospace, medical care and so on.

Technical parameter:

Model		ZL-6011A
Testing room D×W×H		500*600*500mm
index	Temperature range	RT+10℃~80℃
	Humidity range	65~98%R·H
	Spray time	1~9999min, adjustable
	Spray cycle	1-240min, interval adjustable
	spectral wavelength	290nm~800nm (550w/m ²)
	light source	xenon lamp (air-cooled)
	Xenon lamp power	1kw、option: 1.8kw(longevity: 1600H)
Tem perat ure and humi dity con trol	Time controller	Import controller from Moeller
	Accurate range	Temperature: ±0.1℃、/ humidity: ±0.1℃R·H
	Sensor	Platinum resistance Pt100Ω/mv
	Heating system	Independent system, nickel chromium alloy electric heating type heater
	Humidity system	stainless steel, external Isolated humidifier
	Blackboard temperature	Bimetal thermometer blackboard 55℃~75℃
	Water supply	Humidification water supply with automatic control, xenon lamp cooled by water recycling
	Temperature controller	Import controller
	humidity	Irradiation: 30%~65%RH darkly: up to 90%RH
	Cycle system	low-noise air-conditioning-type motors, multi-leaf-type centrifugal wind wheel
material	Outside material	Advanced spray color plate /SUS304 stainless steel
	Inside material	SUS304 stainless steel
	Sample holder material	SUS304 stainless steel
	insulation	High and low temperature aging of silicone rubber
standard	a set of radiation-proof glass window, dynamic testing sample shelf 1, xenon lamp tube 2	
protector	Leakage, short circuit, over-temperature, water shortages, motor overheating, over-current protection.	
Power	AC380V±10% 50±0.5HZ , Three-phase five-wire system	
Environmental temperature	±5℃~+30℃ ≤85%R·H	

Equipment safety protection device:



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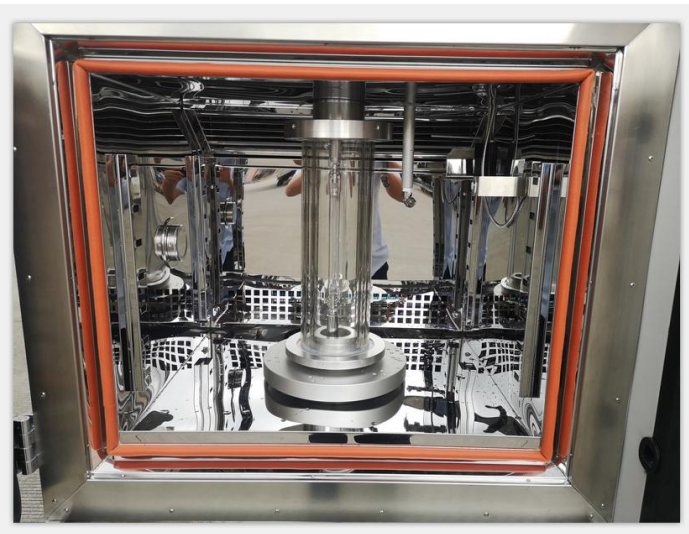
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- 1.Power overload, short circuit protection
- 2.ground protection
- 3.over temperature protection
- 4.Water shortage protection
- 5.In order to protect the equipment,All alarm will automatically cut off power supply , and with audible reminder

Operating conditions:

1. Temperature: 15℃~35℃
2. Relative humidity: less than 85%RH
3. Without strong vibration and strong electromagnetic field
4. Without high concentration of dust and corrosive materials in round field
5. No direct sunlight or other sources of heat radiation directly
6. Without a strong airflow around, when need forced air flow around, air should not be blown directly to the body
7. Test cases should be placed stably, level
8. The sides of the test chamber should keep a certain distance, convenient maintenance operation。
9. Installation site well ventilated
10. Ground Benign

Machine inner picture:





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