

Technical Solutions

- 1. Advanced factory, leading technology
- 2、 Reliability and applicability
- 3、 Environmental protection and energy saving
- 4. Humanized and automated system network management
- 5. Timely and perfect after-sales service system with long-term guarantee

DONGGUAN KESION PRECISION INSTRUMENT CO., LTD



Specification parameters



(The above pictures are for reference only, please prevail in kind)

Remark:

This UV aging tester contains irradiation intensity sensor, irradiation intensity size automatically adjusted, need to confirm the use of irradiation lamp type.

Main functions of the equipment:

This product adopts fluorescent UV lamp that can best simulate the UV spectrum of sunlight, and combines temperature control and humidity supply devices to simulate high temperature, high humidity, condensation and dark cycle of sunlight (UV section) that cause damage to materials such as discoloration, brightness and strength loss; cracking, peeling, chalking and oxidation, etc. Meanwhile, the synergistic effect between UV light and humidity makes the single light resistance or single moisture resistance of materials weaken or fail.



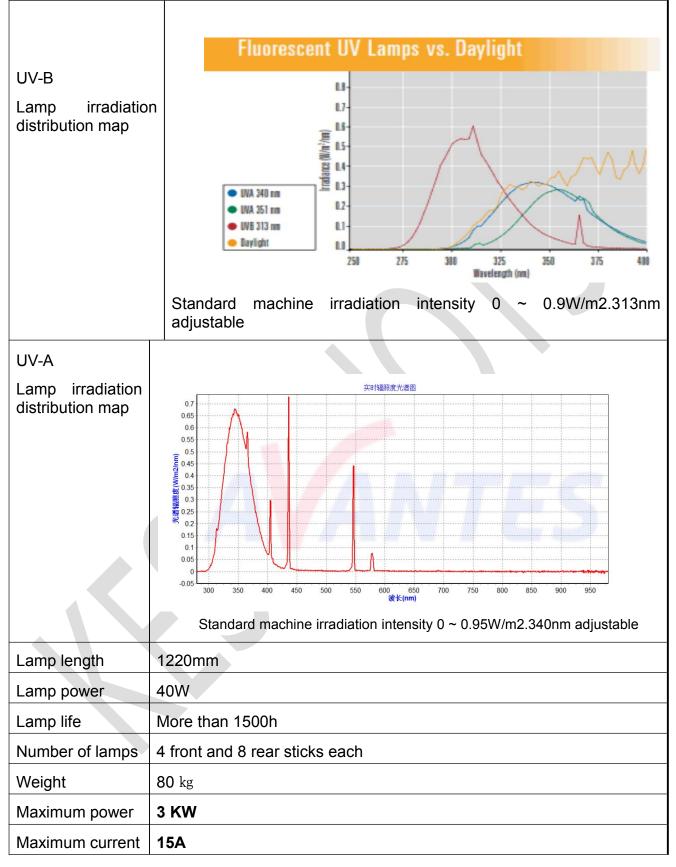
It is widely used to evaluate the weather resistance of materials by weakening or failing the single light resistance or single moisture resistance.

UV weather resistance testing machine performance indicators and the

composition of each system:

Model	KS-UV340A			
Sample rack frame size	493×300 (mm) W×H Total four pieces Leaning Tower Type			
Sample template	75×150*2 (mm) W×H			
size	Each sample rack frame can hold 12 block sample templates			
Shape space	约 1300×1480×550(mm)W×H × D			
Center distance inside the lamp		70mm		
Distance between the test surface		50±3mm		
and the center of the lamp				
Number of nozzles	4 in front and 4 in back for a total of 8			
Spraying pressure	70~200Kpa adjustable			







Power supply	AC 220V single-phase two-wire + protection grounding; voltage		
conditions and	allowable fluctuation range ±10%V;		
power supply	Allowable fluctuation range of frequency 50±0.5HZ; TN-S mode		
	power supply or TT mode power supply		
	Protection grounding resistance less than 4Ω		
	The user is required to configure the corresponding capacity air or		
	power switch for the equipment at the installation site, and this switch		
	must be independently controlled for the use of this equipment		
Performance Indi	icators		
Environmental			
conditions of	The value measured under the conditions of ambient temperature +25 $^{\circ}$ C,		
use	relative humidity ≤85% and no specimen in the test chamber.		
	Irradiation temperature: $50 \sim 70^{\circ}$ C		
Tomporatura an	Condensation temperature: $ m RT\sim~60^\circ C$		
Temperature an	Spraying temperature: Room temperature		
humidity range	Relative humidity: condensation cycle \ge 85% RH; irradiation cycle \le		
	75% RH		
	Temperature resolution: 0. 01 °C		
	Temperature deviation: ±1℃		
Main technic	cal Temperature uniformity: 2°C		
parameters	Temperature fluctuation: ±1℃		
	UV lamp can choose UV-A / UV-B lamp, if no special instructions		
	factory timing configuration UV-A lamp		



	1.GB/T23987-2009/ISO 11507:2007 Artificial climate aging exposure of		
	color and varnish coatings (UV)		
	2.GB/T14522-2008 artificial climate aging test method for plastics, paints		
	and rubber materials for mechanical industry products Fluorescent UV		
	lamp;		
Test meets	3.GB/T16422.3-2014/ISO4892-3:2006 Laboratory light source exposure		
criteria	test method for plastics Part 3 fluorescent UV lamp;		
	4.ASTM G154-2006		
	5.ASTM G153		
	6.GB/T9535-2006/IEC 61215:2005 Terrestrial crystalline silicon		
	photovoltaic modules-design qualification and sizing (10.10 UV		
	pretreatment test part)		
	Irradiation temperature RT→+70℃≤45 min		
Heating rate	Condensation temperature RT→+60°C≤45 min		
Structural featu	res		
	The inner box of the machine is made of SUS304# stainless steel		
	The outer box of the machine is made of SUS304# stainless steel (cold-rolled steel plate baking paint treatment is		
	optional)		
	The irradiation lamp adopts uniform arrangement on both sides to ensure uniform irradiation of the tested parts and		
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	obvious effect		
Box	obvious effect Water tank depth 25mm, water depth can be controlled		
Box structure	obvious effect Water tank depth 25mm, water depth can be controlled The test sample frame is made of stainless steel welding		
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	Power switch, alarm, irradiation accumulator, irradiation current meter,			
Control Panel	irradiation intensity adjustment knob, controller			
Power				
distribution	Heat dissipation fan, distribution board, controller			
control cabinet	הישמו מושטו זמוז, מושטונטוז שטמוע, כטוונוטוופו			
Lamp	Adopt scale-type heating tube, multi-wing centrifugal fan air circulation,			
arrangement	temperature controller output control non-contact SSR, to achieve			
method	temperature balance, long-term stable operation			
Condensing	Water vapor heating method is used, and the P.I.D. controls the heating			
heating system	to achieve temperature balance.			
Hydration system	Manual, automatic two kinds of water replenishment control system, only need to connect the tap water pipe can be automatically controlled, easy to use Note: If the tap water is too much impurity or with acid and alkaline need to add a filter in the water inlet			
Drainage	Drain valve control device, manual drainage method			
system	Automatic overflow control system for water level			
Spraying system	Adopt booster pump to control its spraying water pressure Fully automatic control of its spraying time and spraying cycle Precise overflow device of water level			



Electrical control system				
Controller	Imported liquid crystal display touch screen temperature controller Q-TEST Separate controller irradiation temperature, condensation temperature, irradiation time Condensation time, spraying time and working cycle			
Irradiance meter / solar eye (optional)	 Model: KS-UVI Detection wavelength range: 200nm~480nm. Irradiance measurement range: 0.4W/m2~1.6W/m2 Operating temperature range: room temperature 70 degrees Sensitive area: Φ12mm Appearance size: 30*30*35mm The illuminance sensor can measure and control the irradiance energy in real time and feed back to the controller, which adjusts the PID control in real time according to the set value to ensure that the set value and actual value are one to one. 			
Temperature input mode	Human-machine interface, touch input			



	Available program volume: 120 groups maximum, 1 program can be		
	combined by 1~99 segments		
	Available memory capacity: 1200 segments, repeatable commands: each		
	command up to 999 times, program slope setting can be set by the time		
Program	axis, the program can be set to link between the use, the production of		
capacity and	the program to adopt the talk type operation is simple		
control	With edit, clear, insert and other functions, 4 groups of time signal output		
function	control (can control the object to be measured ON / OFF action)		
	With 9 groups of PID parameters setting, program execution with jumping		
	and holding function, display curve, data acquisition; date and time		
	adjustment function; key and screen lock (LOCK) function, can be		
	connected to a computer		
Operation	RS-232 communication interface, can be used as a monitoring and		
Communication	remote control system, record test data		
Operation			
method	Program method / Constant value method		
Setting method	Chinese/English interface, touch input		
Setting range	Maximum temperature range upper and lower limit 5 $^\circ\!{\rm C}$		
Display	Tomporatura: 0.01°C: Tima: 1min		
Resolution	Temperature: 0.01℃; Time: 1min.		
Power failure			
memory	Power failure recovery mode can be set as: hot start / cold start / stop		
function			
Appointment	Can be get at will to start the time, turn on the new or often the time to		
opening	Can be set at will to start the time, turn on the power after the time to		
function	automatically run the machine		
Temperature			
measurement			
body			
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With RAM with battery protection, it can save the set value of the device,		
the sampling value and the time of the sampling moment; the maximum		
recording time is 60 days (when the sampling period is 1.5min)		
IBM PC compatible machine, P II or above CPU, 128M or above		
memory, Simplified Chinese Windows 2000 or Simplified Chinese		
Windows XP operating system		
Anti-integral saturation PID, BTC balanced temperature control method		
(temperature test equipment)		
Safety protection devices		
Extreme over-temperature protection, water shortage protection		
Water shortage protection, water pressure overload protection		
Heater dry burn, abnormal water supply, abnormal drainage		
Earth leakage protection, overload and short circuit protection		
The ambient temperature of the equipment should be maintained within		
0°C∼+45°C		
Test box left and right and back side wall plate from the wall shall not be		
less than 600mm, the front distance from the wall shall not be less than		
800mm equipment transportation, into the doorway or channel, elevator,		
etc., whether you can enter, so as not to affect the progress of your		
project.		

KESIONOTS® 科讯智造 质赢未来

Configuration List

Serial number	Name	Specification / Model	Brands	Remarks
1.	Test controller	Q-KS	KESIONOTS	
2.	Test chamber	SUS304#Stainless steel welding	Homemade	
3.	Test chamber sealing lid	SUS304#Stainless steel welding	Homemade	
4.	UV lamp	40W	Q-LAB UVA340, USA	
5.	Ballast	015626	Sanxiong	
6.	Heat sink fan	JF12038HA2HSL	Sunon Taiwan	
7.	Temperature limiter	TS-320SB-C	Korea Rainbow	
8.	Heater tube	1.1KW	Taiwan Taitoku	
9.	Water Quality Filter	Fan nozzle	Three ViewsTaiwan	
10.	Spraying device		Homemade	
11.	Spraying water pump	BJZ037	Lingxiao Pump	
12.	Solid State Relays	SSR-40A	Schneider France	
13.	AC Contactors	1810	Taiwan Andriy	
14.	Intermediate Relay	LY2N-J	OMRON Japan	
15.	Self-locking switch	R21	Taiwan Punic	
16.	Temperature Sensor	PT100	Songyang, Taiwan	
17.	Solenoid Valve	ZCA-DN15	Taiwan Juliang	
18.	Liquid level switch	FCH11PDD03P	Taiwan Vanyi	
19.	Sample Rack	Stainless steel processing	Homemade	
20.	Irradiation Regulator	680K 1/4W	Taiwan Tendency	
21.	Irradiation regulation module	SSR-40VA	台湾阳明	