

Salt Spray Tester

Model SPQ

Feature:

This tester is used for the surface erosion resistance test of kinds of material processed by paint, plating, anodized

Standard:

GB/T5170.8, GB/T2423.17, ISO-3768 3769
3770, ASTM-B117 B268, JIS-D0201 H8502 H8610 K5400
Z2371

Application:

1. Watered by itself while lack of water.
2. Precise spray can work 2000 hours without crystallized jam.
3. Made of Japanese PVC, environmental protection and high anti-aging capability, spray is made of transparent PVC.
4. SSR: precisely digital thermal controller with spray protection system.



02-9744354-6

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Specifications

Model	SPQ-150	SPQ-250	SPQ-750	SPQ-1000
Test Room (WxLxH)	600 x 450 x 400 mm	900 x 600 x 450 mm	1200 x 850 x 500 mm	1600 x 1000 x 600 mm
Lite	108 ml	243 ml	510 ml	960 ml
Machine Size (WxLxH)	1130 x 630 x 1070 mm	1460 x 910 x 1280 mm	2200 x 1200 x 1450 mm	2600 x 1450 x 1600 mm
Lab temperature	NSS.ACSS 35°C 1 °C/CASS 50°C 1°C			
Humidity	85% ~ 98% RH			
Temperature range	± 0.5 °C			
Salt Spray Subside	1.0~2.0 ml/ 80 cm 2/h			
Power Supply	AC220V 10A	AC220V 15A	AC220V 20A	AC220V 30A

ITOKIN TECHNOLOGY CO., LTD.

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Salt Spray Tester

Model NSS

standard type, NSS serial, can option LED touch screen.

The whole machine adopts P.V.C material, corrosion resistance, easy to clean, no leakage phenomenon.

Using button type intelligent temperature control instrument, multiple sets of PID automatic routing, high control precision, instrument can also be equipped with LCD touch screen. 108 l, 270 l testing machine cover adopts acrylic transparent roof, more than 480 l model adopts hard P.V.C plastic board, cover automatically opened and closed by cylinder, enclose the window light, may at any time to monitor the spray state machine and working state of the sample. Tower spray system and device have salt liquid filter, no crystallization nozzle, spray uniform distribution, settlement free adjustment. Sample number was laid (150 * 70 mm), such as 48 pieces can be placed in a 15 degree Angle, such as 32 can be placed in 30 degrees. After completion of the experiment, with automatic mist device, the sample (s) can be observed clearly. Clearance or continuous spray optional, multiple protection system, the use of safe and reliable.



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Model	NSS	SP-HL-90	SP-HL-120	SP-HL-160	SP-HL-200
	CASS	SP-AHL-90	SP-AHL-120	SP-AHL-160	SP-AHL-200
	CCT	SP-AHL-90	SP-AHL-120	SP-AHL-160	SP-AHL-200
Interior dimensions (mm)	W	900	1200	1600	2000
	D	600	850	1000	1200
	H	500	600	600	600
Exterior dimensions (mm)	W	1460	1900	2600	3000
	D	910	1150	1450	1650
	H	1280	1500	1550	1600
Chamber Tank		270	480	800	1440
Solution Tank		50 L	90	90	120
Testing Temperature	NSS ACSS 35°C±1°C / CASS 50°C±1°C				
Air Temperature	NSS ACSS 47°C±1°C / CASS 63°C±1°C				
Solution Consistence	NaCl 5%				
PH Value	NSS (Nacl) : 6.5~7.2 / CASS(Cu / CH COOH) : 3.0~3.2				
Temperature fluctuation	± 0.5°C				
Temperature uniformity	2. 0°C				
Temperature Resolution	0.1°C				
Spray quantum	1.0~2.0(ml/80cm2/h)				
Chamber Material	polyvinyl chloride (P.V.C & P.P)				
Heater	Corrosion-resistant titanium tube				
Temperature sensor	Platinum Resistance (PT-100)				
Safety device	Over-temperature protection , leakage protection				
Ambient temp. & humid. range	+5°C ~ +35°C / <85%RH				
Power Supply	AC 220V/50HZ/1P AC 380V/50HZ/3P				

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Salt Spray Tester

Model CASS



Feature

Salt Spray CASS serial

machine adopts imported PVC&PP hard plastic, solid structure, acid and alkali durable, high temperature corrosion, never aging. Suitable for neutral salt fog NSS, acetic acid test along, copper acetate CASS and other experimental requirements. Use plastic precision nozzle and conical spray, mist evenly fast, nozzle long service life, no crystallization. Using LED LCD touch screen, can connect with computer to realize remote monitoring and operation, can be arbitrary switching in both Chinese and English. With USB interface, can insert U disk to download historical data (the alternative recorder. Internal control, spray time without additional time relay. Through the flow meter, high pressure valve to regulate brine flow and pressure of compressed air, to ensure uniform settlement of salt fog. Use the manual water system, water shortage with the function of automatically added, ensure continuity of test.

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Model	NSS	SP-HL-90	SP-HL-120	SP-HL-160	SP-HL-200
	CASS	SP-AHL-90	SP-AHL-120	SP-AHL-160	SP-AHL-200
	CCT	SP-AHL-90	SP-AHL-120	SP-AHL-160	SP-AHL-200
Interior dimensions (mm)	W	900	1200	1600	2000
	D	600	850	1000	1200
	H	500	600	600	600
Exterior dimensions (mm)	W	1460	1900	2600	3000
	D	910	1150	1450	1650
	H	1280	1500	1550	1600
Chamber Tank		270	480	800	1440
Solution Tank		50 L	90	90	120
Testing Temperature		NSS ACSS 35°C±1°C / CASS 50°C±1°C			
Air Temperature		NSS ACSS 47°C±1°C / CASS 63°C±1°C			
Solution Consistence		NaCl 5%			
PH Value		NSS (Nacl) : 6.5~7.2 / CASS(Cu / CH COOH) : 3.0~3.2			
Temperature fluctuation		± 0.5°C			
Temperature uniformity		2.0°C			
Temperature Resolution		0.1°C			
Spray quantum		1.0~2.0(ml/80cm ² /h)			
Chamber Material		polyvinyl chloride (P.V.C & P.P)			
Heater		Corrosion-resistant titanium tube			
Temperature sensor		Platinum Resistance (PT-100)			
Safety device		Over-temperature protection , leakage protection			
Ambient temp. & humid. range		+5°C ~ +35°C / <85%RH			
Power Supply		AC 220V/50HZ/1P AC 380V/50HZ/3P			

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Salt Spray Tester

Model CCT



Feature

Cyclic corrosion testing simulates the closest actual natural environment, such as salt spray, drying, humidity and temperature alternating. The testing is strict than natural environment, and can be programmed or tested individually. There is national testing standard for salt spray test, with acetic acid salt spray corrosion test, Copper-accelerated acetic acid-salt spray test, and Cyclic corrosion test. Vicky SST-420 apply glass fiber reinforced plastics and touch screen auto running, it can run all the environmental test in one chamber, conform relevant international standards. It is widely used to test corrosion resistance of automotive, paint, surface coating, chemical, aerospace, electronic, car industry, offshore and defense industries. Programmable color touch panel LCD screen controller, it can be set temperature, humidity, aridity and air, the tester will simulate and combine salt spray, dry heat, high humidity and its sequence can be set at random and repeated cycling, the maximum cycle is 9999 cycle. It is suitable for automotive components, air material, construction material, electrodeposition paints, Electricity machine, to simulate the changeful environment condition to test. The opening method of cover is pneumatic cylinder, effort saving and convenient. RS-485 communication interface.

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Model		SP-ST-420-CCT	SP-ST-800-CCT	SP-ST-1100-CCT	SP-ST-1500-CCT
internal	(WxDxH)mm	1000x700x600	1300x800x700	1650x900x700	2100x900x700
outer	(W*D*H)mm	1560x1000x1580	1860x1050x1630	2360x1250x1630	2710x1250x1630
materials	test chamber	glass fiber reinforced plastics, thickness: 5mm			
	cover	glass fiber reinforced plastics, with viewing window, auto lifting system to control cover			
	solution tank	with water level, PVC board, thickness: 5mm			
	chamber frame	glass fiber, adjustable test angle			
temperature	saturation barrel	saturation barrel			
	salt spray test	1. test chamber: 35°C±1°C			
		2. saturation barrel: 47°C±1°C			
copper-accelerated acetic acid-salt spray test	1. test chamber: 50°C±1°C				
	2. saturation barrel: 63°C±1°C				
spray mode	tapered disperser	adjustable spray volume, and make spray even			
	nozzle	precision glass nozzle			
	spray volume	1~2ml/80cm ² 1hr			
	defogging mode	air enforcing and drain out			
control system	chamber temperature/saturation barrel	touch screen controller; temperature resolution 0.1°C, from 0-99.90.1°C; PID auto tuning			
	heating slot safe temperature	0~99°C			
	first grade pressure structure adjustment	1. 1st grade pressure regulating valve, pressure range 2-2.5kg/cm ²			
2. 2nd grade pressure regulating valve, pressure 0-4.0kg/cm ² adjustable; spraying pressure adjust to 1.0kg/cm ²					
3. pressure gage 2 Kg/cm ² 1piece, resolution 0.1 Kg/cm ²					
power supply		AC 220v/50Hz/20A			

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SALT SPRAY

LR-BA

Feature

This machine has a standardized test method to check corrosion resistance of coated samples. Salt spray test is an accelerated corrosion test that produces a corrosive attack to the coated samples in order to predict its suitability in use as a protective finish. The appearance of corrosion products (oxides) is evaluated after a period of time. Test duration depends on the corrosion resistance of the coating; the more corrosion resistant the coating is, the longer the period in testing without showing signs of corrosion. Different coatings have different behaviour in salt spray test and consequently, test duration will differ from one type of coating to another



Design Standards:ISO 9227,GB/T 2423.17-1993 ,GB/T 2423.18-2000,GB/T 10125-1997,ASTM.B117-97
JIS H8502 ,IEC68-2-11,IEC68-2-52 1996 ,GB.10587-89,CNS.4158,CNS.4159,CASS,GB/T 12967.3-91 CASS

Specifications

Model	LR-BA
Design Standards	GB/T 10587-2006,GB/T 10125-1997,JIS-D0201,H8502,H8610,K5400,Z2371
Test chamber capacity (L)	300L
Temperature	50 ± 1℃
Test chamber size (LxWxH)	2000 x 1000 x 500 mm
Max volum of test liquid (L)	25
Volume LxWxD (mm)	2700 x 1300 x 1400 mm
Power	AC220V,15A
Spray quantity	1.0~2.0ml/80cm ² /h
PH	6.5~7.2 3.0~3.2

SALT SPRAY

LR-BA



Material

- (A) Test room uses P.V.C (polvinyl chloride) plate, thickness 5 mm, heat-resistant can reach to 80°C.
- (B) Sealed cap of test room uses imported organic glass, Thickness is 5mm, heat-resistant can reach to 80°C.
- (C) Reagent replenishing bottle uses hidden water level perspective window, easy to clean, hard to broke down.
- (D) Saturation air barrel uses plastic and high pressure resistant barrel to make sure heat preservation is good. And match with communicating vessels and cleaning devices.
- (E) Shelves of test room uses complanate dividing shelf, can adjust the angle freely, spray at all sides, can put many test specimen.

CNS.JIS.ASTM specification

- (A) Salt water spray test: NSS, ACSS
 - (1) Test Room: 35°C±1°C (2) Saturation air barrel: 47°C±1°C
- (B) Corrosion resistance test (acidity test): CASS
 - (1) Test Room: 50°C±1°C (2) Saturation air barrel: 63°C±1°C

Cubage of the brine barrel: 15L

Brine Concentration: 5%

Air supply system: air pressure is 1kg/cm², separate into 2 stage to adjust. First stage is roughly adjustment, pressure is 2kg/cm², Second is accurate adjustment, pressure is 1kg/cm²

Spraying methods

- (A) Adopt Bernoulli's Principle, absorb the salt water and spray, spraying extent is uniform, don't have blocking and crystallizing function to make sure the continuation testing spray.
- (B) Nozzle: Use special glass nozzle material, can adjust the size of spraying amount and the angle.
- (C) Spray amount: 1 pcs spray tower is putted in the centre of test room to make sure spraying uniform. It can adjust as 1-2ml/80cm²/hr.
- (D) Chamber has demisting function, you can see the sample after testing.

Heating methods

Adopt direct heating methods, heating speed is quick, can reduce standby time, when temperature is reaching, you can use ON/OFF to change. Temperature can be setted from normal to 70C.

SALT SPRAY

LR-BA

Control system

1. Test room temperature controller 0-99°C, liquid digit showing with PID calculation function, controlling error $\pm 0.1^{\circ}\text{C}$ 1PCS
2. Saturated air barrel temperature controller 0-99°C, liquid digit showing with calculation function, controlling error $\pm 0.1^{\circ}\text{C}$ 1PCS
3. Heating trough liquid swelling safe temperature controller 0-120°C 1PCS
4. Saturated air barrel swelling temperature controller 0-120°C 1PCS
5. Time showing controller: 0.01s-9999hr 1PCS
6. Total Timer 0-9999hr 1PCS
7. Temperature controlling error (Test Room): $\pm 0.1^{\circ}\text{C}$
8. Temperature controlling error (Saturation air barrel): $\pm 0.1^{\circ}\text{C}$
9. Timer showing: 0.1s-99990hr.
10. Accumulate total testing time automatically.
11. Showing relative humidity automatically.

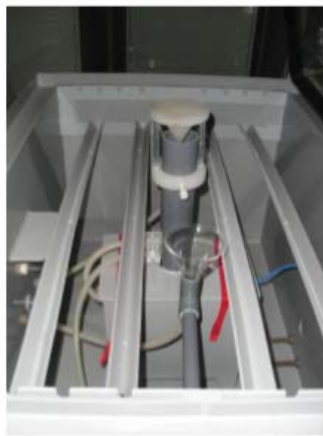


Water system

Adopt water replenishing system, when the water level is too low, it will replenish automatically.

Safety protection device

- (A) Low water level, chamber will cut off power automatically.
- (B) Over-temperature, chamber will cut off power automatically.
- (C) With safety alarm light device.
- (D) Have earth leakage protection device.



SALT SPRAY

LR-BA

Control Panel



Picture



SALT SPRAY

Feature

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accelerated corrosion test that produces a corrosive attack to the coated samples in order to predict its suitability in

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Test

duration depends on the corrosion resistance of the coating; the more corrosion resistant the coating is, the longer

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LR-BB



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Specifications

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Test chamber capacity (L)	300 Lite
Temperature	50 ± 1℃
Test chamber size (LxWxH)	1000 x 600 x 500 mm
Max volum of test liquid (L)	25
Volume LxWxD (mm)	1510 x 880 x 1280 mm
Power	AC220V,15A
Spray quantity	1.0~2.0ml/80cm ² /h
PH	6.5~7.2 3.0~3.2

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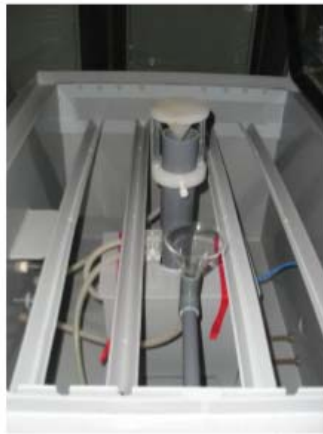


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SALT SPRAY

LR-BB

Control Panel



Picture

