

TOUCH CONTROLLER SALT SPRAY TESTER CHAMBER



FEATURE

The artificial salt spray corrosion simulation environmental test is a method that uses a salt spray test chamber with a certain volume space to artificially create a salt spray environment to assess the corrosion resistance performance of various equipment and equipment components. It compensates for the shortcomings of natural environmental exposure tests by increasing the concentration of chloride ions in the salt spray environment, greatly accelerating the corrosion rate and shortening the time to obtain results. The artificial simulated salt spray environmental test allows the corrosion resistance quality of the samples to be unaffected by natural environmental conditions, thus it has developed rapidly and evolved from a single sodium chloride salt spray test to multiple types of tests. Common salt spray chamber tests can be divided into four categories neutral salt spray test, acetic acid salt spray test, copper accelerated acetic acid salt spray test, and alternating salt spray test. The salt spray environment can cause adverse corrosion effects, electrical effects, and physical effects on products, temporarily or permanently reducing their performance. Therefore, whenever products or equipment may be exposed to atmospheres with high salt content, salt spray testing should be considered.

The typical destructive effects of the salt spray environment on products include the following three types:

1. Corrosion effects:

- 1) Corrosion caused by electrochemical reactions;
- 2) Accelerated stress corrosion;

2. Electrical effects:

- 1) Salt deposits can cause damage to electrical equipment;
- 2) Formation of conductive layers;

3. Physical effects:

- 1) Blockage or jamming of moving parts of mechanical components;
- 2) Coating blistering due to electrolysis.



MEET STANDARDS

GB/T2423.17(IEC60068-2-11), GB/T2423.18(IEC60068-2-52); GB/T10125, ISO 9227, ASTM B 117 JESD22 and corresponding tests in other series of standards.

SPECIFICATION

MODEL SALT SPRAY CHAMBER	SPTA-60	SPTA-90	SPTA-120	SPTA-160	SPTA-200
Lab capacity (L)	110	270	500	800	1500
External dimension WxHxD (mm)	1100x960x760	1400x1250x900	1900x1300x1400	2150x1350x1400	2700x1500x1700
Internal dimension WxHxD (mm)	600x400x450	900x500x600	1200x500x800	1600x500x800	2000x500x800
Lab temperature	Saline test (NSS ACSS) $35 \pm 1^{\circ}\text{C}$, Corrosion Test (CASS) $50 \pm 1^{\circ}\text{C}$				
Pressure bucket temperature	Saline test (NSS ACSS) $47 \pm 1^{\circ}\text{C}$, Corrosion Test (CASS) $63 \pm 1^{\circ}\text{C}$				
Saline capacity (L)	15	25	40	40	40
Saline concentration	5% concentration of NaCl, or every Liter 5% NaCl add 0.26g $\text{CuCl}_2\text{H}_2\text{O}$				
Compressed air pressure (Kgf)	1.0~6.0				
Spray volume	1.0~2.0ml/80cm ² /h (working at least 16 hours, and take the average value)				
Spray form	Continuous spraying or programmable spraying				
Power	AC 220V; 1 phase 3 lines 50/60Hz AC 380V; 3 phase 5 lines 50/60Hz				
Weight (kg)	65	80	120	160	200

