

Intelligent Touch Screen Salt Spray Testing Chamber

(Programmable Test)



Touch Screen Controller

Equipment Summary:

Intelligent Touch Screen Salt Spray Testing Chamber is according to CNS JIS ASTM GB2423.19 specifications can be set constant temperature to control air supply system: air pressure 1kg/cm². Two-stage adjustments (coarse / fine-tuning). The intelligent touch screen salt spray testing chamber is used to test the corrosive resistance of products whose the surface was treated with paint, electroplating, inorganic and organic film, anode handing, anti-dust oil etc.

Corresponding Standard:

1. GB/T 2423.17-1993 salt spray test
2. GB/T 2423.18-2000 salt spray test
3. GB/T 10125-1997 salt spray test
4. ASTM.B117-97 salt spray test
5. JIS H8502 salt spray test
6. IEC68-2-11 salt spray test
7. IEC68-2-52 1996 salt spray test
8. GB.10587-89 salt spray test
9. CNS.4158 salt spray test
10. CNS.4159 CASS Accelerated acetic acid copper salt spray test
11. GB/T 12967.3-91 CASS Accelerated acetic acid copper salt spray test
12. ASTM B117 Standard Practice for Operating Salt Spray (Fog) Apparatus

Detailed configurations as follows:

1. Machine material:

- a. Testing room using PVC polyvinyl chloride plate (from Taiwan), acid-resisting and alkali-resisting, cleaning easier.
- b. Cover of testing room using acrylic panels (imported organic glass), the thickness is 5mm.
- c. Reagents added bottles attached with water gauge, cleaning easy and not easy to break.
- d. Saturated air barrel is made of SUS # 304 stainless steel.
- e. Testing room to adopt indexing frame, can be arbitrarily adjust the angle, Surrounded by fog and placed more piece

2. According to CNS JIS ASTM GB2423.19 specifications, can be set constant temperature to control

- a. Salt spray test: NSS, ACS
 1. Testing room: $35^{\circ}\text{C} \pm 1^{\circ}\text{C}$
 2. Saturated air barrels: $47^{\circ}\text{C} \pm 1^{\circ}\text{C}$
- b. Anti-corrosion test: CASS (copper acetate)
 1. Testing room: $50^{\circ}\text{C} \pm 1^{\circ}\text{C}$
 2. Saturated air barrels: $63^{\circ}\text{C} \pm 1^{\circ}\text{C}$

3. Air Supply System: Air pressure $1\text{kg}/\text{cm}^2$ Two-stage adjustments (coarse / fine-tuning).

- a. The first paragraph for the rough adjustment $2 \sim 2.5\text{kg}/\text{cm}^2$, the second paragraph to fine-tune $1\text{kg}/\text{cm}^2$.
- b. Testing configuration is switch connector designed for SO_2

4. Spray Form:

- a. Using Bo Nute principle to draw brine and then saline spray, atomization uniform, non-blocking and crystallization, so that ensure continuous spraying.
- b. Nozzle: The nozzle is made of special glass, adjust spray volume and spray angle.
- c. Spray volume: Adjustable $1 \sim 2\text{ml}$ ($80\text{cm}^2/\text{hr}$) (average of 16-hour volume).

5. Heating Devices:

By direct heating, warming up faster and reduction of standby time, when the temperature arrives automatically switch ON / OFF, make temperature accuracy, low power consumption (heating tube is made of titanium alloy).

6. The Control System:

- a. Testing room temperature controller is the digital micro-computer products 0 ~ 99.9°C, PID automatic calculation, the control error is $\pm 0.3^{\circ}\text{C}$ (YANG MING6802) 1 pc
- b. Saturated air barrels controller 0 ~ 99.9°C, PID automatic calculation, the control error is $\pm 0.3^{\circ}\text{C}$ (YANG MING6802) 1 pc
- c. Safe temperature controller of heat expansion of the liquid tank 30 ~ 110°C (Italy) 1 pc
- d. Safe temperature controller of expansion of the saturated air barrel: 30 ~ 110°C (Italy) 1 pc
- e. Digital time controller 9.9s ~ 9990hr (Taiwan) 1 pc.
- f. Timer 0 ~ 9999hr (Taiwan Anliang) 1 pc
- g. Buckle switch, continuous buckling 20000 times.
- h. 60 type, 90 types for manual flip, 120, 160, 200 type for the pneumatic cylinder automatic opening and closing.
- i. Pressure gauge, (Taiwan B card).
- j. Fixture breaker (YANG MING).
- k. Electromagnetic valve; (KSD).
- l. Regulating valve (YIHUA).
- m. Breaker (Omron).

7. Add water systems:

Using automatic water replenishment system, automatic replenishment when the water level is too low.

8. Safe protective device:

- a. Low water level automatically cut off power supply.
- b. Over-temperature, automatic cut off the power supply.
- c. Attached to the safe warning light device

Technical Parameter:

Model	EI-SPT108	EI-SPT270	EI-SPT480
Inner size	60 x 45 x 40 cm	90 x 60 x 50 cm	120 x 80 x 50 cm
Outer size	107 x 60 x 118 cm	141 x 88 x 128 cm	190 x 110 x 140cm
Testing Room Temperature	Salt test (NSS ACSS) $35^{\circ}\text{C}\pm 1^{\circ}\text{C}$ / Corrosion Test (CASS) $50^{\circ}\text{C}\pm 1^{\circ}\text{C}$		
Pressure Barrel Temperature	Salt test (NSS ACSS) $47^{\circ}\text{C}\pm 1^{\circ}\text{C}$ / Corrosion Test (CASS) $63^{\circ}\text{C}\pm 1^{\circ}\text{C}$		
Brine Temperature	$35^{\circ}\text{C}\pm 1^{\circ}\text{C}$; $50^{\circ}\text{C}\pm 1^{\circ}\text{C}$		

Testing Room Capacity	108L	270L	480L
Brine Tank Capacity	15L	25L	40L
Salt Concentration	The concentration of sodium chloride 5% or the 5% concentration or sodium chloride add 0.26g per liter of copper chloride (CuCl ₂ 2H ₂ O)		
Air Pressure	1.00±0.01kgf/cm ²		
Spray Volume	1.0 ~ 2.0ml / 80cm ² / hour (working at least 16 hours, and then take the average)		
Testing Room Relative Humidity	85% above		
PH	6.5 ~ 7.2; 3.0 ~ 3.2		
Programmable Control	PLC Touch Screen		
Spray Form	Programmable spray (including continuous and the intermittent spray)		
Power	240v 50Hz, 10A	240v 50Hz, 15A	240v 50Hz, 20A
Standard Accessories	Water Tank Heater Chamber Heater Sodium Chloride (1kg/bottle) Sodium Chloride Measuring Cup pH Test Paper Nozzle Filter Operation Manual		

