

IPX12 Rain Test Chamber



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Product features:

1. Product application: The product is suitable for external lighting and signal devices and automotive lamp shell protection test.

2. Technical specifications :

Name	IPX12 Rain Test Chamber
Model	SM-IPX12-1000
Test function	IPX1、 IPX2 water Drop test
The test standards meet	IEC 60068-2-18 Test R and guidance:Water IEC60529:2001 Shell protection grade GB4208-2008 Shell protection grade GB2423 TEST R: Water test methods and guidelines GJB150.8A-2009 Rain test program III
Test limit	a. Testing and storage of flammable, explosive, volatile substances; b. Test and storage of corrosive substances; c. Test or storage of biological specimens; d. Test and storage of high electromagnetic emission source sample.

A. IPX1、 IPX2 Rain test

IPX1

Method name : Vertical drop test

Test device: Drop test device

Sample placement: The specimen placed in the rotating sample table with 1r/min according to the normal position, the distance between the top of the sample is not greater than 200mm

Test conditions: Drop volume is 10.5mm/min

Duration time: 10 min

IPX2

Inclined 15 degree drop test

Test device: Drop test device

Sample placement: One surface of the specimen is a 15 degree angle with vertical line, the distance between the top of the sample is not greater than 200mm. After the surface is tested, changed another side. Four times a total.

Test conditions: Drop volume is 30.5mm/min

Duration time: 4 *2.5min



B. Control system:

Control mode	Adopting the digital display table control, and set the parameters automatically according to the test requirement.
Operation mode	IPX1、 IPX2、 Independent control, manual operation
Control functions	IPX1、 IPX2 Drop test

C. IP test device structure:

IP test device is composed of a water spraying device, a water supply device, a sample test bench and a control cabinet.

1. Water system

Water system consist of water tank, water pump, internal circulation pipe system, etc., IPX1, IPX2, shared a set of water system.

1.1, Water tank:

1.1.1, IPX1、IPX2 share a water tank;

1.1.2, Water tank uses SUS304 stainless steel, which was installed on the side of test devices. the capacity of tank could meet test water;

1.1.3, Automatic water supply device for water tank. When the water level of the water tank is lower than the safe water level, the water tank can be automatically supplied by the external water supply.;

1.1.4, Water shortage alarm function for water tank. When the water level in the water tank is lower than the water inlet of the circulating water pump, pump stops working and alarm;;

1.1.5, Water gauge for tank. Water gauge is arranged in the front surface of the box, you can always watch the water tank;

1.1.6, An overflow port and a drain port are provided. and a manual valve is arranged at the end of the overflow pipe and the drain pipe.;

1.1.7, The water tank can be disassembled and cleaned, and the corresponding joint or hose connection is arranged in the water pipe connection;

1.1.8, The water filter is arranged on the external water supply side of the water tank, and the impurities in the filter water can be observed directly.

1.2, Water pump:

Water pump uses high pressure stainless steel pump, ensure water pressure and flow of the test cycle, the pump is installed in the side of the IP test device, and both ends of the inlet and outlet to set up the joint, easy to replace and repair.

1.3, Internal circulation pipe system:

1.3.1, The internal circulation pipe system is equipped with a water quality filter, a glass flow meter, a pressure gauge, a drain valve, and a filter, the pressure gauge can be directly observed;

1.3.2, The filter, pressure gauge and glass flow meter are set up loose joint and easy to be changed;

1.3.3, Water flow is controlled by the glass flow, automatic control the water flow and ensure the safe operation of the pump;

1.3.4, SUS304 stainless steel material is used in the internal circulating pipe and connecting parts, which ensure the required water quality.

3, Control cabinet

3.1, Control cabinet uses 304 stainless steel plate ;

3.2, Control cabinet with waterproof protection in order to avoid leakage accident.

D. Safety protection device :

1, Equipped with an abnormal sound and light alarm device ;

2, Water safety protection device;

3, Power supply phase shortage, power supply abnormal alarm, leakage, short circuit, open circuit protection device;

4, The total power switch has the leakage protection function;

5, Motor overheating, overload alarm device, water shortage, low water level alarm device;

6. Pressure regulating device for the front end of the air supply system of the test device.

E. Work conditions:

1. Water supply: Drinking Water

2. Water supply pipe: $\varnothing 20\text{mm}$ Water flow: $\geq 1\text{T/h}$

3. Drain pipe: $\varnothing 25\text{mm}$

4. Power supply: $\text{AC}380\text{V} \pm 10\%/50\text{Hz}/2.5\text{KW}$, Three phase five wire

5. Place: Cement floor, drainage trench (detailed requirements see design plan), Load 1T/m^2

6. Wall: brick structure

F. Other requirements:

1. Equipment documents: The following information is delivered to the owner at the time of delivery.

1.1, User manual (included operation and repair)

1.2, Electrical wiring diagram

2. Equipment identification requirements: Text label on the device

3. Training: when the equipment is received in the factory of party B, the party A people will accept Maintenance & Operation training

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Shipping & packing procedure

