

- Manufacturing environmental test chambers with 20 years experience
- Independently developed controller
- Energy saving 40%
- Approved CE/ISO certification

# IPX3,4 Rain test Chamber

## Technical Data



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**※※※PROPOSAL※※※**

**To:** mikro-vill-bau kft  
**Attn:** Zoltan Veg GABAJ  
**CC :**  
**From:** Sanwood Environmental Chambers Co., Ltd.

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**Date:**2015-12-07

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**Name:** : Rain Test Chamber (IPX3,4)

**Model :** SM-LY-IP34

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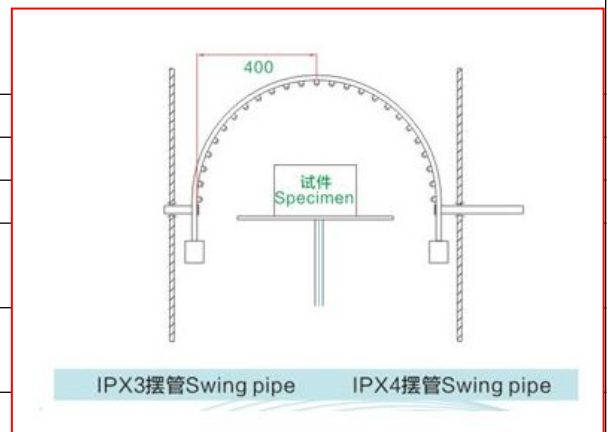
**Product features:**

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

Name	Water spray / IP waterproof grade test device
Model	SM-LY-IP34
Test function	<b>IPX3、IPX4、Drop test</b>
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. IPX3、IPX4 Rain test**

Work room size	2000×2000×2000mm (D×W×H)
Test bench area	Ø1600mm
Pipe hole size	The number of holes 25 pcs
Pendulum tube water hole	Ø 0.4mm (Described when ordering)
Spray hole spacing	50mm; (can be adjusted according to customers)
Spray ring radius	400mm



Inner diameter of spray pipe	Ø16mm
Swing angle range	0° ~330° can be set
Swing speed adjustment	0~20 times can be set
Water pressure	About 80Kpa
Water supply quantity	Adjusted according to IPX3、IPX4
Test bench speed	1 ~10r/min.
<b>B. Control system:</b>	
Control mode	Adopting the digital display table control, and set the parameters automatically according to the test requirement.
Operation mode	<b>IPX3、IPX4、Independent control, manual operation</b>
Control functions	<b>IPX3、IPX4 Drop test</b>
<b>C. IP test device structure:</b>	
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, IPX3、IPX4 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.
<b>D. Safety protection device :</b>
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.
<b>E. Work conditions:</b>
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: AC380V $\pm 10\%$ /50Hz/2.5KW, Three phase five wire
5. Place: Cement floor, drainage trench (detailed requirements see design plan), Load 1T/m <sup>2</sup>
6. Wall: brick structure
<b>F. Other requirements:</b>
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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Show details

Rain chamber



1. Control System

Adopt a color PLC touch screen controller that supports multiple English, Korean and Russian and other languages of countries

2. Nozzle

Stainless steel nozzle orifices can be replaced at any time according to requirements of the standard aperture

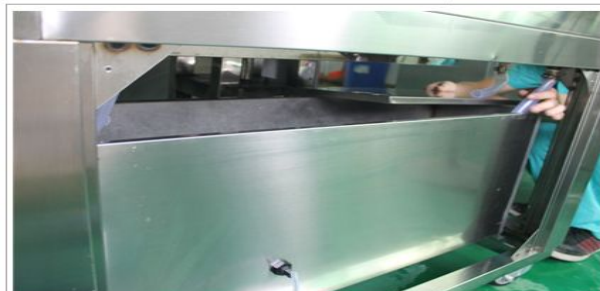


3. Pendulum tube

Adjusting the frequency using the frequency of the oscillating tube

4. Workbench

The sample was placed on a revolving working bench rain test



5. Water storage boxes

Stainless steel Water storage boxes, equipped with pumps, water filters, water float valve

6. Water inlet

Bottom inlet connection equipment faucet, water can enter the water holding tank



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Shipping & packing procedure



Environmental chamber have passed all the inspection and ready for packing



Paper angle bead



Bubble bag



Fixed wooden case



We packed it with fumigation and wooden case to protect the goods from any damage