

220V 50HZ Rain Spray Test Equipment Stainless Steel Rain Testing Machine

Our Product Introduction

Basic Information

- Place of Origin: Guangdong , China
- Brand Name: YueXin
- Certification: ISO 20653:2013, DIN 40050-9:1993, IEC60529:2013 VW 80000:2017 LV124 K-10
- Model Number: YX-IPX34CLE-R1200
- Minimum Order Quantity: 1 pcs
- Price: usd+20000-50000+pcs
- Packaging Details: wooden box package
- Delivery Time: 30-45 days
- Payment Terms: T/T
- Supply Ability: 100+pcs+30



Product Specification

- Name Of Commodity: Rain Spray Test Equipment
- IP Code: IPX3 IPX4
- Type: Rain Spray Environmental Equipment
- Turn Table Diameter: 800mm
- Turn Table Load Bearing: 50KG
- Radius Of Swivel Tube: R600mm - R1600mm
- Rotating Speed: 1-5 Rounds Per Minute
- Service Scenarios: Rain、 Splash Water
- Highlight: **220V Rain Spray Test Equipment,
50HZ Rain Spray Test Equipment,
Stainless Steel Rain Testing Machine**

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Product Description

IPX3 IPX4 Elevatable R1200 mm Swing Tube Rain Spray Tester with Flow Sensor

General specifications:

Outside Dimension	L2400*W800*H1800
Material	304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

Product knowledge:

The height of the swing tube on this equipment is adjustable through a lifting mechanism, enabling it to accommodate different product sizes and testing requirements by adjusting the height and angle of the tube, thereby achieving optimal testing results. Moreover, the flow sensor equipped with good repeatability, which can make the difference of multiple measurement results smaller, ensuring the stability and reliability of the measurement data.

The counterweight is added at the bottom of the case to lower the center of gravity of the case and make the device more stable when swinging.

There is a water storage tank inside the equipment and a water level control system. When it is short of water, it will alarm.

The sample power socket (220V, 10A) is mounted under the control cabinet, which is convenient for the user to do the live test of the sample; and after the sample is powered on, the turntable rotation will be automatically adjusted to forward and reverse rotation to prevent winding⁵. The swing tube is driven by a servo motor, with precise swing angle and low noise.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple languages⁶.

Universal casters are mounted on the bottom, which has good load-bearing and easy to move and fix the equipment.

Protection measures: short circuit protection, water shortage alert.

Standard technical data :

Item	Parameters
Radius of swivel tube ⁷	R1200
Diameter of swivel tube	2400mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	0.4mm
Number of nozzles of swivel tube	See remark ⁸
Distance between nozzles	50mm
Test time	0-999min
Speed of rotation of the swivel tube	60 degree/s
Swing pipe angle	IPX3:120°; IPX4:350°
Water volume flow	IPX3: 3.5(L/min) ; IPX4: 5.3(L/min)
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

Working scenario:

The rain spray test chamber has a wide range of application scenarios, and is mainly used to test the waterproof performance of various products under different simulated rain conditions. It has important applications in many fields such as automobiles and auto parts, electronic products and components, outdoor equipment, building materials, military and aerospace industries.

Attention:

1 The pictures in this document are for customer reference only, and there may be color differences between the actual model and the pictures.

2 This document only lists some test standards, which does not mean that other test requirements and standards cannot be conducted. Welcome to communicate and discuss with us.

3 One test only at the same time. The next project can be only carried out after the current test is completed. In addition, we can provide multi-functional customized test solutions according to user requirements.

4 Standard load-bearing upper limit of turntable is 50kg, but also can be customized per requirements.

5 Please inform in advance if the voltage(220V) does not match the actual needs so that we can provide customized solutions for you.

6 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.

7 The swing pipe can be equipped with a variety of specifications, which can be selected according to the sample size range (satisfying the spray distance <200mm), please confirm clearly before placing an order.

8 The specifications of swing pipe for IPX3/4 rain test, as shown in the figure below:

**Table 9 – Total water flow rate q_v under IPX3 and IPX4 test conditions –
Mean flow rate per hole $q_{v1} = 0,07$ l/min**

Tube radius R mm	Degree IPX3		Degree IPX4	
	Number of open holes $N^{1)}$	Total water flow q_v l/min	Number of open holes $N^{1)}$	Total water flow q_v l/min
200	8	0,56	12	0,84
400	16	1,1	25	1,8
600	25	1,8	37	2,6
800	33	2,3	50	3,5
1 000	41	2,9	62	4,3
1 200	50	3,5	75	5,3
1 400	58	4,1	87	6,1
1 600	67	4,7	100	7,0

1) Depending on the actual arrangement of the hole centres at the specified distance, the number of open holes N may be increased by 1.

9 The photos may not match the actual ones, and are for user reference only.

Detail picture:



scale - R1200

Tags: Rain Spray Tester for IPX3 IPX4, Rain Spray Testing Machine, IPX3 IPX4 Waterproof Equipment



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