

IPX3-4 R600 Mm Swing Nozzle Rain Test Machine With Flow / Pressure Sensor

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-IPX34KCSE-R600
- 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

- Type: Rain Spray Environmental Equipment
- IP Code: IPX3 IPX4
- Turn Table Load Bearing: 30KG
- Turn Table Diameter: 400mm
- Radius Of Swivel Tube: R600mm - R1600mm
- Rotating Speed: 1-5 Rounds Per Minute
- Service Environment: Rain、 Splash Water
- Product Designation: Swing Tube Rain Test Apparatus , Waterproof Testing Machine
- Highlight: **Swing Nozzle Rain Test Machine, R600 Rain Test Machine**

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Product Description

IPX3-4 R600 mm Swing Nozzle Rain Test Machine with Flow and Pressure Sensor

General specifications:

Outer Size	L1200*W600*H1200
Material	304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

Product introduction:

Equipped with flow sensors and pressure sensors, the rain test machine ensures that the rainfall volume remains consistent across each test, thereby enhancing the accuracy of test results. Additionally, by monitoring water pressure fluctuations, the pressure sensor promptly identifies and prevents potential equipment malfunctions or safety hazards arising from excessively high or low water pressure.

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.

Both sides of the column adopts a slightly inclined design, when splash test, the water sprayed on the cabinet will flow out from the inside, will not bring into contact with the electric control part, to protect the electrical safety of the equipment.

Pendulum using CNC technology processing, nozzle spacing of 50mm, stainless steel, factory will be high-pressure rinsing, to avoid clogging of impurities.

The diameter of the rotary table is matched according to the specifications of the pendulum tube, such as R200-φ200mm rotary table, R400-φ400mm rotary table.

Flow rate, swing angle, etc. have been internally calibrated and measured by a third party before shipment to comply with standards such as IEC60529 and EN60598.

All 304 stainless steel body, excellent material, will not rust.

The swing angle of the pendulum tube can be customised to meet more scenarios of testing needs.

Technical data:

Item	Specification
Radius of swivel tube ⁷	R600
Diameter of swivel tube	1200mm
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: 1.8(L/min) ; IPX4: 2.6(L/min)
Power supply	220V/50HZ
Power	1.0kW

Application scenarios:

The IPX34 rain chamber serves as a pivotal tool for testing across diverse industries, encompassing automotives and related components, electronics and their constituents, outdoor appliances, building blocks, and the demanding realms of military and aerospace engineering. By simulating rain events, it rigorously examines the water-resistant properties of products and parts, solidifying their reliability and longevity in real-world applications.

Remark:

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 30kg, 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.

Product detail picture:



swing tube - interface

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



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