



IPX3-4 R1600 mm Swing Tube Rain Test Machine with Customizable Spray Patterns

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-IPX34C-R1600
- 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

- IP Code: IPX3 IPX4
- Radius Of Swivel Tube: R600mm - R1600mm
- Turn Table Diameter: 1000mm
- Turn Table Load Bearing: 50KG
- Type: Rain Spray Environmental Equipment
- Experimental Scenarios: Rain、 Splash Water
- Rotating Speed: 1-5 Rounds Per Minute
- Commodity Name: Swing Pipe Rain Test Apparatus , Waterproof Testing Machine
- Highlight: **ipx3 rain test machine, ipx3 rain testing machine, ipx4 rain test machine**

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Product Description

IPX3-4 R1600 mm Swing Tube Rain Test Machine with Customizable Spray Patterns

General specifications:

Outer Dimension	L3200*W800*H2200
Material	304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

IPX3 IPX4 rain test machine information:

This rain test device is equipped with four glass flowmeters, which facilitate the distribution and adjustment of flow rates in various areas, ensuring the consistency and accuracy of test conditions.

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.

Stainless steel counterweights are added at both ends of the swing tube to improve the fluency of swing and reduce the shaking range of the swing tube.

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.

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

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

The equipment can be equipped with a variety of pendulum tube specifications: R200-R1600mm (need to be specified in advance).

Spray water can not be recycled, the test need to maintain a continuous water inlet, the internal water tank, if due to accidental water cut off, it will not affect the progress of the test, you can continue to spray water.

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.

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.

Standard technical data :

Item	Specification
Radius of swivel tube ⁷	R1600
Diameter of swivel tube	3200mm
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°
Flow control ⁹	Manual adjustment with flow meter
Water volume flow ¹⁰	IPX3: 4.7(L/min) ; IPX4: 7.0(L/min)
Flow error range	±5%
Flow meter range	0-8.0 L
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

Working setting:

The Swing Nozzle Rain Test Machine, with its proficiency in simulating rainfall for extensive products, is an optimal choice for assessing the water resistance, sealing quality, and longevity of automotive components, exterior electronics, construction materials, and a variety of other items. Its diverse range of models ensures compatibility and precision across various testing requirements.

Cautions:

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 standard model is adjusted by a flowmeter, and the upper surface of the float is aligned with the scale to read the data; if you need to export the test data, you can choose a flow sensor.

10 When reading the flowmeter, the second digit after the decimal point is the estimated reading data, not accurate data; if the user is concerned about the accuracy of the data, a flow sensor can be selected through negotiation.

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

Detail picture:



control panel

Tags: Water Spray Climatic Apparatus for IPX3 IPX4, Rain Spray Test Machine, IPX3 IPX4 Rain Test Device

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