

Simple R1200 Mm Swing Tube Rain Spray Test Equipment IPX3 IPX4

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-IPX34CH-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

- IP Code: IPX3 IPX4
- Radius Of Swivel Tube: R600mm - R1600mm
- Turn Table Diameter: 800mm
- Rotating Speed: 1-5 Rounds Per Minute
- Turn Table Load Bearing: 50KG
- Type: Rain Spray Environmental Equipment
- Experimental Setting: Rain、 Splash Water
- Name: Water Spray Test Device, Swing Pipe Rain Test Apparatus
- Highlight: **Simple Rain Spray Test Equipment,
Swing Tube Rain Spray Test Equipment,
Rain Spray Test Equipment IPX3**

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Product Description

Simple R1200 mm Swing Tube Rain Detection Machine for IPX3 IPX4

General specifications:

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

Product description:

The rain test equipment, featuring a single oscillating tube with a swing range of $\pm 90^\circ$, enables precise swing control and is suitable for devices requiring localized waterproof testing.

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 features :

Item	Specification
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	$\pm 90^\circ$
Flow control ⁹	Manual adjustment with flow meter
Water volume flow ¹⁰	IPX3: 3.5(L/min) ; IPX4: 5.3(L/min)
Flow error range	$\pm 5\%$
Flow meter range	0-7.0 L
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

Working scenario:

Ideal for simulating rainfall conditions on large-scale products, the Swing Nozzle Rain Test Machine excels in assessing waterproofing capabilities, seal integrity, and durability of items such as automotive components, outdoor electronics, and construction materials. Its diverse model portfolio caters to a broad spectrum of testing requirements.

Notices:

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 image:



sprinkler

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

YUEXIN® Guangzhou Yuexin Test Equipment Co., Ltd.

☎ 18122303372 ✉ mft@yxipx.com 🌐 raintestchambers.com

101, No.3, Jiangjunzi Road, Dalong Street, Panyu District, Guangzhou City China