

## IPX3 IPX4 R1400 Mm Swing Pipe Water Spray Test Equipment With 3 Flow Sensors

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-IPX34CE-R1400
- 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
- Rotating Speed: 1-5 Rounds Per Minute
- Turn Table Load Bearing: 50KG
- Turn Table Diameter: 800mm
- Type: Rain Spray Environmental Equipment
- Experimental Setting: Rain、 Splash Water
- Product Title: Swing Pipe Rain Test Apparatus , Waterproof Testing Machine
- Highlight: **IPX3 Water Spray Test Equipment, IPX4 Water Spray Test Equipment, Swing Pipe Water Spray Test Equipment**

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## Product Description

### IPX3 IPX4 R1400 mm Swing Pipe Water Spray Test Equipment with 3 Flow Sensors

#### General specifications:

Outward Dimension	L2800*W800*H2000
Material	304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

#### Product information:

This rain test machine is equipped with 3 flow sensors, ensuring that the water spray flow at different locations can be accurately monitored, thereby providing a more comprehensive reflection of the water spray conditions across the entire test area.

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 winding<sup>5</sup>. 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 languages<sup>6</sup>.

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.

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

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.

The swing angle can be customised, such as swinging from the bottom to the top to simulate the splashing situation.

#### Standard data :

Item	Specification
Radius of swivel tube <sup>7</sup>	R1400
Diameter of swivel tube	2800mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	0.4mm
Number of nozzles of swivel tube	See remark <sup>8</sup>
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: 4.1(L/min) ; IPX4: 6.1(L/min)
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

#### Operating scenario:

The IPX34 rain test chamber has significant applications across various sectors, including automotive and parts, electronics and components, outdoor equipment, building materials, military and aerospace industries. It simulates rain conditions to test the waterproof performance of products and components, ensuring their reliability and durability in practical use.

#### 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

<sup>1)</sup> 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 photo of product:**



outlet

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

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