

## IPX3 IPX4 400 mm Rain Spray Testing Chamber with Pressure Boost System

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-IPX34KB-R400
- 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

- Product Name: Waterproof Test Chamber , Rain Spray Climatic Chamber
- Turn Table Diameter: 400mm
- Controller: 7-inch PLC Touch Screen
- Operation Scenarios: Rain、 Splash Water
- Turn Table Load Bearing: 25KG
- Material: Outer: Steel Plate; Inner: 304 Stainless Steel
- Inspection Window: Tempered Glass
- Rotating Speed: 1-5 Rounds Per Minute
- Highlight: ipx3 water spray test equipment,  
ipx4 water spray test equipment,  
ipx4 ipx3-4 rain spray test equipment

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## Product Description

### IPX3 IPX4 400 mm Rain Spray Testing Chamber with Pressure Boost System

#### General specifications:

Power supply: 220V/50HZ  
 Power: 1.0kW  
 Outward dimension: Approx W 1350×D 1120×H 1770 (mm)  
 Inward dimension: W 900×D 900×H 900 (mm)

#### Product features:

Boasting pressurization capabilities, this apparatus mirrors waterproof testing conditions closer to practical usage than standard swing tube rain chambers. As a result, it produces test outcomes that are both exact and reliable.

There is a water storage tank inside the equipment and a water level control system. When the water is full, it will prompt, and when it is short of water, it will alarm. The sample power socket (220V, 10A) is mounted on the right wall of the inner box, 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>. And there is a waterproof lighting inside, which is convenient for users to observe the test situation.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple languages<sup>6</sup>.

Test time setting: 0-999min<sup>7</sup>.

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

Conventional box-type equipment swing tube specifications are generally R200, R400, R600, can be customised according to user needs to do larger specifications (need to assess the budget, delivery period and other factors)

Using Yuexin independent research and development and design of the operating interface, support for multi-language switching, and in the case of networking can be handled remotely to deal with program problems.

The equipment adopts stainless steel water pump to ensure that the machine operates for a long time without rusting and is very durable.

The equipment is painted in Yuexin's standard blue and white colour to emphasise the waterproof theme.

Box-type structure, can be recycled water testing, saving resources and more environmentally friendly (it is recommended to replace the water once a week to prevent the deterioration of water quality)

#### The standard parameters :

Item	Specification
Radius of swivel tube <sup>8</sup>	R400mm
Diameter of swivel tube	800mm
Internal diameter of nozzle	0.4mm
Internal diameter of swivel tube	15mm
Number of nozzles of swivel tube	See remark <sup>9</sup>
Distance between nozzles	50mm
Speed of rotation of the swivel tube	60 degree/s
Swing pipe angle	IPX3:120°; IPX4:350°
Flow control <sup>10</sup>	Manual adjustment with flow meter
Water volume flow <sup>11</sup>	IPX3(L/min): 1.1; IPX4(L/min): 1.8
Flow error range	±5%
Flow meter range	0-2.0 L
Power supply	220V/50HZ
Power	1.0kW

#### Working scene:

The rain chamber meticulously simulates rainfall environments to rigorously test for durability, sealing quality, and operational effectiveness in wet conditions. Catering to a wide spectrum of industries, including electronics, automotive components, outdoor devices, and various other applications, its automation and water recycling capabilities streamline the testing process, guaranteeing precise and dependable test outcomes.

#### 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 25kg, 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 It is recommended to set the test time according to the test standard. The water temperature will rise due to long time test which has an impact on the test results.

8 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.

9 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.

10 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.

11 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.

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

#### Detail image of product:



wiper handle

**Tags:** Waterproof Chamber for IPX3 IPX4, Rain Spray Environmental Chamber, Rain Spray Test Chamber

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