



Circulating 400 mm Rain Test Chamber for IPX3 IPX4, Visible Rain Chamber

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-IPX34B-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

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

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Product Description

Circulating 400 mm Rain Test Chamber for IPX3 IPX4, Visible Rain Chamber

General specifications:

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

Product knowledge:

The equipment boasts a swing tube with customizable velocity and precise angular adjustments, empowering it to replicate diverse rainfall intensities and directions. This facilitates the evaluation of product performance under realistic rainy scenarios.

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 winding⁵. 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 languages⁶.

Test time setting: 0-999min⁷.

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.

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)

Simple installation, power on and adding water can be used, test parameters can be set on the touch screen, clear picture, easy to operate.

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.

The main technical parameters :

Item	Specification
Radius of swivel tube ⁸	R400mm
Diameter of swivel tube	800mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	0.4mm
Number of nozzles of swivel tube	See remark ⁹
Distance between nozzles	50mm
Speed of rotation of the swivel tube	60 degree/s
Swing pipe angle	IPX3:120°; IPX4:350°
Flow control ¹⁰	Manual adjustment with flow meter
Water volume flow ¹¹	IPX3(L/min): 1.1; IPX4(L/min): 1.8
Flow error range	±5%
Flow meter range	0-2.0 L
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

Application:

Designed for comprehensive water resistance evaluation, the rain test chamber is an essential tool across industries. It mimics actual rainfall to scrutinize devices' endurance, sealing efficiency, and operational status amidst moisture. Ideal for testing electronics, automotive parts, outdoor appliances, and a plethora of others, its automation and water reuse capabilities expedite the testing process while ensuring dependable results.

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 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.
- 3 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.
- 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

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.

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.

Product detail picture:



water tank

Tags: Waterproof Chamber for IPX3 IPX4, Rain Spray Environmental Chamber, Rain Spray Climatic Chamber



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