

IPX3 IPX4 400 mm Rain Test Chamber with Flow Sensor Compliance with Standards

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-IPX34BE-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
- Turn Table Load Bearing: 25KG
- Controller: 7-inch PLC Touch Screen
- Observation Window: Tempered Glass
- Turn Table Diameter: 400mm
- Rotating Speed: 1-5 Rounds Per Minute
- Operation Scenarios: Rain、 Splash Water
- Product Name: Waterproof Test 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

IPX3 IPX4 400 mm Rain Test Chamber with Flow Sensor Compliance with Standards

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

About product:

Equipped with a high-precision flow sensor, the device is capable of real-time monitoring and controlling the water spray flow, ensuring that the spray flow during each test meets the preset standards. This is particularly crucial for waterproof rating tests that require precise control of water spray volume.

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.

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

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)

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)

Internal front water storage tank, can be convenient for maintenance and timely water change, the water tank has a filter, can prevent parts impurities into the pump.

The standard 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°
Water volume flow	IPX3(L/min): 1.1; IPX4(L/min): 1.8
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

Application:

The rain simulation chamber meticulously replicates rainfall environments to thoroughly assess the durability, sealing effectiveness, and wet-environment operational performance of devices. Serving a diverse range of applications including electronics, automotive parts, outdoor devices, and many others, its automated processes and water reuse capabilities enhance testing efficiency, ensuring precise and 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 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

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

Product detail picture:



control panel

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



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