

High Performance 800 mm Rain Spray Test Chamber with Flow Sensor for IPX3 IPX4

Our Product Introduction

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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-R800
- 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 Diameter: 600mm
- Controller: 7-inch PLC Touch Screen
- Rotating Speed: 1-5 Rounds Per Minute
- Observation Window: Tempered Glass
- Application Scenarios: Rain、Splash Water
- Turn Table Load Bearing: 30KG
- Product Name: Waterproof Testing Chamber , Rain Spray Test Chamber
- Highlight: **ipx3 rain spray test chamber,**
ipx3 water spray test chamber,
ipx4 rain spray test chamber

Product Description

High Performance 800 mm Rain Spray Test Chamber with Flow Sensor for IPX3 IPX4

General specifications:

Outward dimension: Approx W 1750×D 1530×H 1970 (mm)
 Within dimension: W1300×D 1300×H1300 (mm)
 Power supply: 220V/50HZ
 Power: 1.0kW

The main product knowledge:

Designed with water circulation and automation technology, this product adeptly meets the rigorous rain spray testing standards of diverse equipment. Additionally, the advanced flow sensor continuously monitors the current flow, promptly transmitting the data to the control system for fine-tuning, thus ensuring both the stability and accuracy of the fluid flow.

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.

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)

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.

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 data :

Item	Specification
Radius of swivel tube ⁸	R800mm
Diameter of swivel tube	1600mm
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): 1.8; IPX4(L/min): 2.6
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ

Usage scene:

The rain simulator meticulously mimics rainfall patterns to thoroughly assess the resilience, sealing effectiveness, and operational performance of devices under wet circumstances. Catering to a multitude of industries, encompassing electronics, automotive components, outdoor equipment, and more, its automated features and water recycling system facilitate efficient testing processes, guaranteeing accurate and reliable 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

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 image:



turntable

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

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