

IPX3 IPX4 400mm Pressure Rising Rain Spray Testing Chamber With Sensor

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-IPX34KBSE-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: Outside: Steel Plate; Inside: 304 Stainless Steel
- Turn Table Diameter: 400mm
- Operation Scenarios: Rain、 Splash Water
- Inspection Window: Tempered Glass
- Controller: 7-inch PLC Touch Screen
- Rotating Speed: 1-5 Rounds Per Minute
- Turn Table Load Bearing: 25KG
- Goods Name: Waterproof Test Chamber , Rain Spray Climatic Chamber
- Highlight: 400mm Rain Spray Testing Chamber, Pressure Rising Rain Spray Testing Chamber



More Images



Product Description

IPX3 IPX4 400 mm Pressure Rising Rain Spray Testing Chamber with Sensor

General specifications:

Outward dimension: Approx W 1350×D 1120×H 1770 (mm)

Within dimension: W 900×D 900×H 900 (mm)

Power supply: 220V/50HZ

Power: 1.0kW

Product trait:

Equipped with flow sensors and pressure sensors, the test chamber is capable of not only precisely controlling and monitoring the flow rate of rainfall, but also simulating rainfall environments under varying pressures, thereby enabling a comprehensive evaluation of the waterproof performance of products. Moreover, its supercharging system is usually equipped with stable safety devices, such as overvoltage protection and overload protection, to ensure the safe and stable operation of the equipment during the supercharging process.

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

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.

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)

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

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
Power supply	220V/50HZ
Power	1.0kW

Operating scene:

The IPX34 rain test chamber is widely used in various scenarios, including waterproof performance testing of outdoor appliances, household appliances, automotive components, and electrical products. It can realistically simulate the water spray test environment to ensure the product's good performance in rainy or humid environments.

Notes:

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.

Detail image:



needle

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



Guangzhou Yuexin Test Equipment Co., Ltd.



18122303372



mft@yxipx.com



raintestchambers.com

101, No.3, Jiangjunzi Road, Dalong Street, Panyu District, Guangzhou City China