

IPX3-6 R400 Rain Test Chamber for Harsh Environments and Conditions

Our Product Introduction

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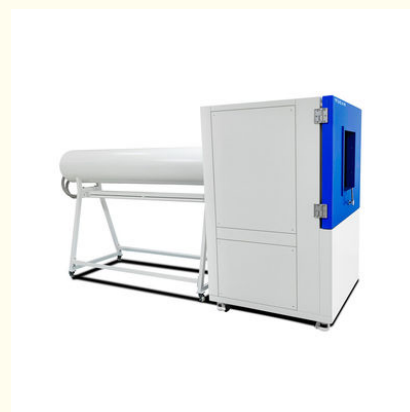
Basic Information

- 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-IPX36B-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

- Test Rate: IPX3 IPX4 IPX5 IPX6
- Diameter Of Detachable Turntable: 400mm
- Operating Environment: Rain、 Splash Water、 Water Spray、 Powerful Water Spray
- Diameter Of Bottom Turntable: 600mm
- Controller: 7-inch Touch Screen + PLC
- Turn Table Load Bearing: 30KG
- Rotating Speed: 1-5 Rounds Per Minute
- Product Name: IPX3-6 Waterproof Test Equipment
- Highlight: **IPX3-6 Rain Test Chamber, Rain Test Chamber, Harsh Environments Rain Test Chamber**



Product Description

IPX3-6 R400 Rain Test Chamber Suitable for Harsh Environments and Conditions

General specifications:

Dimension	Outer :L1350*W1080*H1750/ L400*W2500*H1300; Inner :W 900×D 900×H 900 (mm)
Material	External : steel plate; Internal : 304 stainless steel
Power supply	380V/50HZ
Power	2.5kw

Usage:

The IPX3-6 waterproof testing equipment is primarily used to evaluate the protective performance of electronic devices and components in various water splashing and spraying environments. Products such as outdoor lighting, automotive parts, and home appliances need to withstand the challenges of rainwater and water spray cleaning scenarios, ensuring they remain free from moisture damage and maintain stable performance during use.

Product structure:

The IPX3-6 Water Resistance Test Chamber is designed to evaluate product waterproofness under rigorous standards. It mimics water exposure from different angles, ranging from vertical sprays (IPX3) to high-pressure jets from all directions (IPX6), guaranteeing resilience in harsh aquatic conditions.

For IPX5/6 testing, here are two spray modes: up and down sweeping water spray and fixed water spray⁵.

The flow rate is manually adjusted by the flow meter, and the user can adjust it according to the actual test requirements⁶. 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 winding⁷.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple language⁸.

Test time setting: 0-999min⁹.

Protection measures: short circuit protection, water shortage alert.

Standard features for IPX3/4:

Item	Parameter
Radius of swivel tube ¹⁰	R400
Diameter of swivel tube	800mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	IPX3/4 : 0.4mm
Number of nozzles of swivel tube	See remark ¹¹
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 ;
Flow error range	±5%

Standard features for IPX5/6:

Item	Parameter
Diameter of nozzles	IPX5 : 6.3mm; IPX6 : 12.5mm
Water flow	IPX5 : 12.5±0.625 L/min IPX6 : 100.0±5.0L/min
Spray distance	2.7m
Spray direction	Spray from back to front
Spray height	700mm
Nozzle swing speed	0-20 cycle/min

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 50kg, but also can be customized per requirements. Turntables of φ200mm are provided for replacement.

5 If the sample height exceeds 150mm, it is recommended to choose the swing spray method.

6 This 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. 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.

7 Please inform in advance if the voltage(220V) does not match the actual needs so that we can provide customized solutions for you.

8 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.

9 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.

10 Multiple specifications of pendulum tubes can be provided, please confirm clearly before placing an order; if other specifications are added after purchase, the equipment needs to be returned to the factory to replace hardware and programs.

11 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

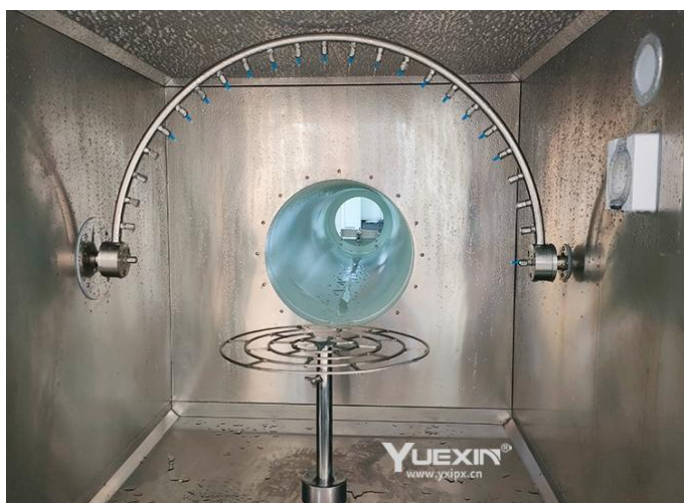
¹⁾ Depending on the actual arrangement of the hole centres at the specified distance, the number of open holes N may be increased by 1.

12 This distance is the range from the nozzle to the center of the turntable. If the user wants to extend the spraying distance, he needs to explain in advance.

13 Since the IPX5 water spray is in a parabolic shape, the water spray range will be lower than this height, and the measured maximum water spray height is close to 550mm.

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

Detail information:



inner box

Tags: Waterproof Testing Equipment , IP Grade Climatic Chamber , IPX3-6 Environmental Machine



Guangzhou Yuexin Test Equipment Co., Ltd.



18122303372



mft@yxipx.com



raintestchambers.com

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