

IPX3-6 R400 Rain Test Chamber With Flow Sensor For Water Spray In Wet Environment

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-IPX36GSE-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
- Turn Table Load Bearing: 30KG
- Diameter Of Detachable Turntable: 400mm
- Diameter Of Bottom Turntable: 600mm
- Controller: 7-inch Touch Screen + PLC
- Rotating Speed: 1-5 Rounds Per Minute
- Working Scene: Rain、 Splash Water、 Water Spray、 Powerful Water Spray
- Product Name: IPX3-6 Waterproof Test Equipment
- Highlight: **Flow Sensor Rain Test Chamber, IPX3-6 Rain Test Chamber, Wet Environment Rain Test Chamber**



Product Description

IPX3-6 R400 Rain Test Chamber with Flow Sensor for Water Spray in Wet Environment

General specifications:

Dimension	Outer :L1350*W1100*H1750/ L2400*W400*H1500; Inner :W 900×D 900×H 900 (mm)
Material	External : steel plate; Internal : 304 stainless steel
Power supply	380V/50HZ
Power	2.5kw

Usage:

By simulating environmental conditions such as rain and splashes, the IPX3-6 waterproof testing chamber enables manufacturers to evaluate the durability and reliability of their offerings. Its applications extend to smartphones, outdoor tools, automotive components, and various appliances.

This testing plays a pivotal role in quality control, helping to forestall real-world failures and reassuring consumers about the product's water-resistant properties.

Product structure:

As professional waterproof testing equipment, the IPX3-6 chamber evaluates product performance under different waterproof ratings. It supports a range of tests from IPX3 to IPX6, utilizing cutting-edge control systems and spray devices to ensure the accuracy and reliability of outcomes. Moreover, it is equipped with a flow sensor to better monitor the flow rate and improve accuracy.

For IPX5/6 testing, here are two spray modes: up and down sweeping water spray and fixed water spray⁵. 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 winding⁶.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple language⁷.

Test time setting: 0-999min⁸.

Protection measures: short circuit protection, water shortage alert.

Standard features for IPX3/4:

Item	Parameter
Radius of swivel tube ⁹	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 ¹⁰
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 Please inform in advance if the voltage(220V) does not match the actual needs so that we can provide customized solutions for you.
- 7 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.
- 8 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.
- 9 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.
- 10 The specifications of swing pipe for IPX3/4 rain test, as shown in the figure below:

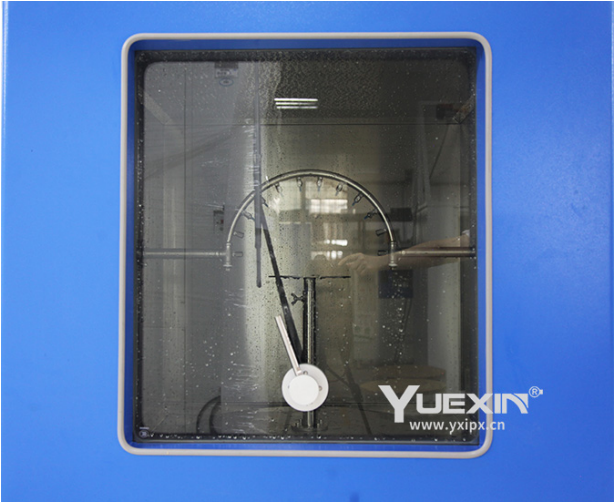
Table 9 – Total water flow rate q_v under IPX3 and IPX4 test conditions –
Mean flow rate per hole $q_{v1} = 0,07$ l/min

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.

- 11 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.
- 12 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.
- 13 The photos may not match the actual ones, and are for user reference only.

Detail information:



spray gun

window

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



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