

## IPX3-6 R400 Rain Test Chamber For Product Waterproof Performance Evaluation

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-IPX36GS-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 Bottom Turntable: 600mm
- Turn Table Load Bearing: 30KG
- Diameter Of Detachable Turntable: 400mm
- Rotating Speed: 1-5 Rounds Per Minute
- Controller: 7-inch Touch Screen + PLC
- Working Environment: Rain、 Splash Water、 Water Spray、 Powerful Water Spray
- Product Name: IPX3-6 Waterproof Test Equipment
- Highlight: **IPX3-6 Rain Test Chamber, Product Waterproof Performance Rain Test Chamber, R400 Rain Test Chamber**



## Product Description

### IPX3-6 R400 Rain Test Chamber for Product Waterproof Performance Evaluation

#### 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:

The IPX3-6 waterproof testing chamber assists manufacturers in assessing their products' durability and reliability by simulating various environmental conditions like rain and splashes. It is commonly employed for testing smartphones, outdoor devices, automotive parts, and appliances. This process is crucial for maintaining quality standards and preventing potential failures in practical usage, thereby giving consumers confidence in the product's water-protection features.

#### Product structure:

The IPX3-6 chamber serves as specialized waterproof testing equipment, designed to assess product performance across various waterproof ratings. Capable of conducting tests ranging from IPX3 to IPX6, it employs sophisticated control systems and spray mechanisms to guarantee precise and dependable results.

For IPX5/6 testing, here are two spray modes: up and down sweeping water spray and fixed water spray<sup>5</sup>. 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 winding<sup>6</sup>.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple language<sup>7</sup>.

Test time setting: 0-999min<sup>8</sup>.

Protection measures: short circuit protection, water shortage alert.

#### Standard features for IPX3/4:

Item	Parameter
Radius of swivel tube <sup>9</sup>	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 <sup>10</sup>
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:



window

inner box

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



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