

R1600mm Simple Swing Tube Rain Spray Test Chamber IPX3 IPX4

Our Product Introduction

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-IPX34CHE-R1600
- 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

- IP Code: IPX3 IPX4
- Rotating Speed: 1-5 Rounds Per Minute
- Radius Of Swivel Tube: R600mm - R1600mm
- Type: Rain Spray Environmental Equipment
- Turn Table Diameter: 1000mm
- Applied Scenarios: Rain、 Splash Water
- Turn Table Load Bearing: 50KG
- Commodity Title: Swing Tube Rain Test Apparatus , Rain Test Machine
- Highlight: **Swing Tube Rain Spray Test Chamber, R1600mm Rain Spray Test Chamber, Rain Spray Test Chamber IPX3**

for more products please visit us on raintestchambers.com

Product Description

R1600 mm Simple Swing Tube Rain Testing Machine for IPX3 IPX4 with Flow Sensor

General specifications:

Outside Dimension	L3200*W800*H2200
Material	304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

Product description:

Boasting a single pendulum tube with a $\pm 90^\circ$ swing capacity, this rain test machine offers pinpoint control over oscillations, making it apt for equipment that necessitates focused waterproofing tests. Additionally, armed with high-accuracy flow sensors, it provides a cost-effective solution in certain instances compared to more expensive flow meters.

The counterweight is added at the bottom of the case to lower the center of gravity of the case and make the device more stable when swinging.

There is a water storage tank inside the equipment and a water level control system. When it is short of water, it will alarm.

The sample power socket (220V, 10A) is mounted under the control cabinet, 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. The swing tube is driven by a servo motor, with precise swing angle and low noise.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple languages⁶.

Stainless steel counterweights are added at both ends of the swing tube to improve the fluency of swing and reduce the shaking range of the swing tube.

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.

Standard technical data :

Item	Specification
Radius of swivel tube ⁷	R1600
Diameter of swivel tube	3200mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	0.4mm
Number of nozzles of swivel tube	See remark ⁸
Distance between nozzles	50mm
Test time	0-999min
Speed of rotation of the swivel tube	60 degree/s
Swing pipe angle	$\pm 90^\circ$
Water volume flow	IPX3: 4.7(L/min) ; IPX4: 7.0(L/min)
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

Service environment:

The Swing Nozzle Rain Test Machine stands tall as the optimal solution for subjecting large products to rigorous simulated rain assessments. It proficiently evaluates the waterproof characteristics, sealing robustness, and longevity of a diverse array of products, spanning from automotive parts to outdoor electronics and building elements. Its extensive model lineup caters to a wide range of testing necessities, ensuring a precise fit for every application.

Product 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 50kg, 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 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.

8 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.

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

Detail image:



needle

Tags: Waterproof Climatic Apparatus for IPX3 IPX4, Rain Spray Test Machine, IPX3 IPX4 Rain Test Device



Guangzhou Yuexin Test Equipment Co., Ltd.



18122303372



mft@yxipx.com



raintestchambers.com

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