

## R800 mm Oscillating Tube Rain Test Machine, Rainfall Tester for 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-IPX34C-R800
- 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
- Type: Rain Spray Environmental Equipment
- Turn Table Load Bearing: 40KG
- Experimental Scenarios: Rain、 Splash Water
- Rotating Speed: 1-5 Rounds Per Minute
- Radius Of Swivel Tube: R600mm - R1600mm
- Turn Table Diameter: 600mm
- Commodity Name: Swing Pipe Rain Test Apparatus , Waterproof Testing Machine
- Highlight: **ipx3 rain test machine,**  
**ipx3 rain testing machine,**  
**ipx4 rain test machine**

for more products please visit us on [raintestchambers.com](http://raintestchambers.com)

## Product Description

### R800 mm Oscillating Tube Rain Test Machine, Rainfall Tester for IPX3 IPX4

#### General specifications:

Outer Dimension	L1600*W600*H1400
Material	304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

#### Introduction to IPX3 IPX4 rain test machine:

The pendulum rain test apparatus features a dual-column design, simplifying installation procedures and guaranteeing smooth pendulum movement. Additionally, its base incorporates adjustable casters, enhancing the machine's portability.

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 winding <sup>5</sup>.

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 languages<sup>6</sup>.

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.

The swing angle of the pendulum tube can be customised to meet more scenarios of testing needs.

The cabinet has been weighted, which can effectively reduce the centre of gravity and make the pendulum swing more smoothly without great shaking.

Pendulum using CNC technology processing, nozzle spacing of 50mm, stainless steel, factory will be high-pressure rinsing, to avoid clogging of impurities.

Spray water can not be recycled, the test need to maintain a continuous water inlet, the internal water tank, if due to accidental water cut off, it will not affect the progress of the test, you can continue to spray water.

Flow rate, swing angle, etc. have been internally calibrated and measured by a third party before shipment to comply with standards such as IEC60529 and EN60598.

#### Standard parameters :

Item	Specification
Radius of swivel tube <sup>7</sup>	R800
Diameter of swivel tube	1600mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	0.4mm
Number of nozzles of swivel tube	See remark <sup>8</sup>
Distance between nozzles	50mm
Test time	0-999min
Speed of rotation of the swivel tube	60 degree/s
Swing pipe angle	IPX3:120°; IPX4:350°
Flow control <sup>9</sup>	Manual adjustment with flow meter
Water volume flow <sup>10</sup>	IPX3: 2.3(L/min) ; IPX4: 3.5(L/min)
Flow error range	±5%
Flow meter range	0-4.0 L
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

#### Application:

The Swing Nozzle Rain Test Machine excels in simulating rainfall conditions for extensive products, making it an ideal choice for evaluating water resistance, sealing performance, and longevity of automotive parts, exterior electronics, building supplies, and various other applications. Offering a range of models, it flexibly addresses diverse testing necessities.

#### 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 40kg, 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:

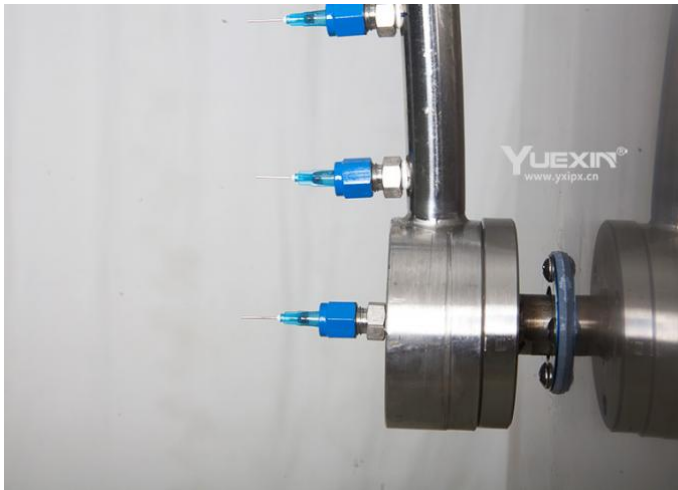
**Table 9 – Total water flow rate  $q_v$  under IPX3 and IPX4 test conditions –**  
Mean flow rate per hole  $q_{v1} = 0,07$  l/min

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

<sup>1)</sup> 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 standard 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.
- 10 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.
- 11 The photos may not match the actual ones, and are for user reference only.

**Product detail photo:**



needle

**Tags:** Rain Spray Climatic Apparatus, Rain Spray Testing Machine, IPX3 IPX4 Waterproof 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