

Elevatable R1200 Mm Swing Tube Rain Test Machine 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-IPX34CL-R1200
- 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 Diameter: 800mm
- Turn Table Load Bearing: 50KG
- Radius Of Swivel Tube: R600mm - R1600mm
- Rotating Speed: 1-5 Rounds Per Minute
- Usage Scenarios: Rain、 Splash Water
- Name Of Commodity: Swing Pipe Rain Test Apparatus , Waterproof Testing Machine
- Highlight: **Swing Tube Rain Test Machine,
Rain Test Machine IPX4,
Rain Test Machine IPX3**

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Product Description

Elevatable R1200 mm Swing Tube Rain Spray Test Machine for IPX3 IPX4

General specifications:

Outside Dimension	L2400*W800*H1800
Material	304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

Product knowledge:

The height of the swing tube on this equipment is adjustable through a lifting mechanism, enabling it to accommodate different product sizes and testing requirements by adjusting the height and angle of the tube, thereby achieving optimal testing results.

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 ⁵.

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 ⁶.

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 diameter of the rotary table is matched according to the specifications of the pendulum tube, such as R200-φ200mm rotary table, R400-φ400mm rotary table.

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.

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

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

Both sides of the column adopts a slightly inclined design, when splash test, the water sprayed on the cabinet will flow out from the inside, will not bring into contact with the electric control part, to protect the electrical safety of the equipment.

All 304 stainless steel body, excellent material, will not rust.

Standard technical parameters :

Item	Parameters
Radius of swivel tube ⁷	R1200
Diameter of swivel tube	2400mm
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	IPX3:120°; IPX4:350°
Flow control ⁹	Manual adjustment with flow meter
Water volume flow ¹⁰	IPX3: 3.5(L/min) ; IPX4: 5.3(L/min)
Flow error range	±5%
Flow meter range	0-7.0 L
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

Working environment:

Perfectly suited for subjecting big products to simulated rainfall, the IPX34 swing nozzle rain test machine is exceptional in gauging the waterproof performance, sealing strength, and durability of various products, from car components to outdoor electronics and building materials. With a variety of models to select from, it satisfies a wide range of testing necessities.

Attention:

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 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.

Detail picture of product:



control panel

Tags: Rain Spray Tester for IPX3 IPX4, Rain Spray Testing Machine, IPX3 IPX4 Waterproof Equipment



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