

Side Spray IPX3-9K R800 Rain Test Equipment With The Power On Test

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-IPX39GS-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

- Window Material: Tempered Glass
- Type: IPX3 IPX4 IPX5 IPX6 IPX9 IPX4K IPX6K IPX9K
- Commodity Name: Comprehensive Testing Machine
- Diameter Of Detachable Turntable: 800mm
- Controller: 7-inch Touch Screen + PLC
- Service Environment: Rain / Splash Water / Water Spray / Powerful Water Spray、 High Temperature And High Pressure Steam Jet
- Turn Table Load Bearing: 40KG
- Rotating Speed: 1-5 Rounds Per Minute
- Highlight: **Power On Test Rain Test Equipment, IPX3-9K Rain Test Equipment, Side Spray Rain Test Equipment**

Product Description

Side Spray IPX3-9K R800 Rain Test Equipment with the Power On Test

General specifications:

Dimension	Outer : L2100*W1900*H2300/ L2400*W400*H2200; Inner : W 1700×D 1700×H 1700(mm)
Material	External : steel plate; Internal : 304 stainless steel
Power supply	380V/50HZ
Power	18.0kw

Product presentation:

In the IPX3-9K spray test chamber, water is applied to the samples through side-mounted nozzles in a side-spray arrangement. This design guarantees consistent and precise water delivery at a stable spray angle, leading to dependable test outcomes. Additionally, the chamber's simple design enables easy modifications to the spray direction by adjusting the nozzles, making it user-friendly and straightforward to operate.

The equipment uses a high-quality servo motor to drive the swing tube, so that the swing angle is more precise and the noise is low.

For IPX5/6 testing, here are two spray modes: up and down sweeping water spray and fixed water spray⁵ (Spray water from back to front).

The spray distance (IPX9/9K) can be adjusted manually to meet the standard (125±25mm).

The flow rate is automatically adjusted by an electronic flow sensor, and the flow data will be displayed on the touch screen in real time⁶.

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 winding⁷.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple language⁸.

Test time setting: 0-999min⁹.

Working environment:

The IPX3-9 spray test chamber is designed to assess the water resistance of electronic devices and various products by subjecting them to specific water spray conditions. It is applicable in both research and development as well as quality control within the electronics industry, particularly for smartphones, household appliances, automotive electronics, and outdoor gear. By employing this chamber, users can replicate different water spray scenarios to examine the waterproof functionality of products, ensuring they can operate effectively without experiencing failures from water intrusion in real-world situations.

Standard features for IPX3/4K:

Item	Parameter
Radius of swivel tube ¹⁰	R800
Diameter of swivel tube	1600mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	IPX3/4 : 0.4mm; IPX4K : 0.8mm
Number of nozzles of swivel tube	See remark ¹¹
Distance between nozzles	50mm
Speed of rotation of the swivel tube	60 degree/s
Swing pipe angle	IPX3 : 120°; IPX4/IPX4K : 350°
Water volume flow	IPX3(L/min) : 2.3 ; IPX4(L/min) : 3.5 ; IPX4K(L/min):15.0
Flow error range	±5%

Standard features for IPX5/6K:

Item	Parameter
Diameter of nozzles	IPX5,IPX6K : 6.3mm; IPX6 : 12.5mm
Water flow	IPX5 : 12.5±0.625 L/min IPX6 : 100.0±5.0L/min IPX6K : 75.0±3.75L/min
Spray distance ¹⁴	2.7m
Spray direction	Spray from back to front
Spray height ¹⁵	800mm
Nozzle swing speed	0-20 cycle/min

Standard features for IPX9K:

Item	Parameter
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Spray distance	125±25mm
Number of nozzles	4
Nozzle angle	0°,30°,60°,90°
Water flow	14-16L/min
Flow control	Automatic adjustment
Storage tank temperature	80±5
Spray pressure	8000-10000Kpa
Water jet impact	0.9-1.2N
Test time	120 seconds, 30 seconds per position

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 $\phi 200\text{mm}$ are provided for replacement.
- 5 If the sample height exceeds 150mm, it is recommended to choose the swing spray method.
- 6 Use flow sensor to adjust water flow automatically, the flow is set according to the corresponding test options, and does not support custom settings.
- 7 Please inform in advance if the voltage(220V) does not match the actual needs so that we can provide customized solutions for you.
- 8 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.
- 9 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.
- 10 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.
- 11 The specifications of swing pipe for IPX3/4 rain test, as shown in the figure below:

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

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.

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

Product detail photo:



waterproof socket

Tags: IP Waterproof Test Equipment , IP Grade Climatic Chamber , IPX3-9K Environmental Machine



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