

IPX1-6 R800 Rain Test Chamber with Transducers for Intense Water Spray

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-IPX16KBSE-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

- Turntable Tilt: 0°or 15°(horizontal Direction)
- Controller: 7-inch Touch Screen + PLC
- Rotating Speed: 1-5 Rounds Per Minute
- Turn Table Load Bearing: 40KG
- Product Name: Ingress Protection Environmental Chamber
- Test Function: IPX1 IPX2 IPX3 IPX4 IPX5 IPX6 IPX4K IPX6K
- Working Scene: Drip , Rain, Splash Water, Water Spray, Powerful Water Spray
- Window Material: Tempered Glass
- Highlight: **IPX1-6 Rain Test Chamber, Transducers Rain Test Chamber, Intense Water Spray Rain Test Chamber**



Product Description

IPX1-6 R800 Rain Test Chamber with Transducers for Intense Water Spray

General specifications:

Dimension	Outer : L2100*W1900*H2450/ L400*W2300*H2200 Inner : W 1700×D 1700×H 1950 (mm)
Material	Outward : steel plate; Within : 304 stainless steel
Power supply	380V/50HZ

Application:

The IPX1-6 rating standards have wide applications in various fields, such as electronics, construction, automobiles, and other industries, where products all require waterproof testing. By passing the waterproof performance tests according to the IPX1-6 ratings, it can be ensured that the products can still function normally when exposed to water environments, thereby enhancing product reliability.

Product description:

This chamber is a floor standing structure, it not only can simulate the test environment of IPX1-6, but also equipped with IPX4K IPX6K strong water spraying function, through the use of flow sensors and pressure sensors, it can get more stable test data and more accurate test results.

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.

The flow rate is manually adjusted with a glass flow meter⁵.

Use a pressure gauge to display the test water pressure.

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 winding⁶.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple languages⁷.

Test time setting: 0-999min⁸.

Universal casters are mounted on the bottom, which has good load-bearing and easy to move and fix the equipment.

Standard parameters for IPX1/2:

Item	Parameter
Drip area	600×600mm
Diameter of nozzles	0.4mm
Distance between nozzles	20mm
Water flow(IPX1) ⁹	0.36-0.54 L/min
Water flow(IPX2)	1.08-1.26L/min
Drip distance ¹⁰	200mm

Standard parameters for IPX3/4:

Item	Parameter
Radius of swivel tube ¹¹	R400
Diameter of swivel tube	800mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	0.4mm
Number of nozzles of swivel tube	See remark ¹²
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) : 1.1 ; IPX4(L/min) : 1.8

Standard parameters 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 direction	Spray from back to front
Spray distance ¹³	2.7m

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 This 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. 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.
- 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 The data is calculated based on the dripping area, $\text{IPX1}: 0.6 \times 0.6 \times (0.001 - 0.0015) = 0.00036 - 0.00054 \text{ m}^3/\text{min}$ (that is $0.36 - 0.54 \text{ L/min}$).
- 10 200mm is the distance from the nozzle to the sample specified in the standard, and the user needs to adjust the height of the turntable to meet the distance requirement.
- 11 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.
- 12 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 $q_{v1} = 0,07 \text{ l/min}$**

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.

- 13 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.

The product detail picture:



control panel

Tags: IPX1-6 Waterproof Grade Test Machine, Waterproof Test Apparatus, Device Protection Testing Equipment



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