

## 380V Waterproof Test Chamber IPX3 - IPX9K Environmental Testing Chamber

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-IPX39KGSE-R400
- 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

- Controller: 7-inch Touch Screen + PLC
- Type: IPX3 IPX4 IPX5 IPX6 IPX9 IPX4K IPX6K IPX9K
- Diameter Of Detachable Turntable: 400mm
- Service Environment: Rain / Splash Water / Water Spray / Powerful Water Spray- High Temperature And High Pressure Steam Jet
- Glass Material: Tempered Glass
- Product Name: Environmental Testing Chamber
- Turn Table Load Bearing: 40KG
- Rotating Speed: 1-5 Rounds Per Minute
- Highlight: **380V Waterproof Test Chamber , Waterproof Test Chamber IPX3, IPX9K Environmental Testing Chamber**

## Product Description

### 380V Waterproof Test Chamber IPX3 - IPX9K Environmental Testing Chamber

#### Product Overview:

Dimension	Outer : Approx W 4100×D 1190×H 1660 (mm); Inner : W1050×D 900×H 900(mm)
Material	External : steel plate; Internal : 304 stainless steel
Power supply	380V/50HZ
Power	18.0kw

#### Product structure:

- 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 spray<sup>5</sup> (spray water from left to right).
- The spray distance (IPX9/9K) can be adjusted manually to meet the standard (125±25mm).
- The outer layer of the water tank is pasted with thermal insulation cotton to reduce heat dissipation and ensure a constant water temperature.
- There is a water storage tank inside the equipment and a water level control system. When the water is full, it will prompt, and when it is short of water, it will alarm.
- The flow rate is automatically adjusted by an electronic flow sensor, and the flow data will be displayed on the touch screen in real time<sup>6</sup>.
- 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 winding<sup>7</sup>.
- There is a waterproof lighting inside, which is convenient for users to observe the test situation.
- Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple language<sup>8</sup>.
- Test time setting: 0-999min<sup>9</sup>.
- Protection measures: short circuit protection, water shortage alert.
- Universal casters are mounted on the bottom, which has good load-bearing and easy to move and fix the equipment.

#### Technical parameters for IPX3/4K:

Item	Data
Radius of swivel tube <sup>10</sup>	R400
Diameter of swivel tube	800mm
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 <sup>11</sup>
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 ; IPX4K(L/min):15.0
Flow error range	±5%

#### Technical parameters for IPX5/6K:

Item	Data
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 <sup>14</sup>	2.7m
Spray direction	Spray from left to right
Spray height <sup>15</sup>	800mm
Nozzle swing speed	0-20 cycle/min

#### Technical parameters for IPX9K:

Item	Data
Spray distance	125±25mm
Number of nozzles	4个
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 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

<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.

- 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.

**Tags:** IPX3-9K Environmental Machine , IP Waterproof Test Equipment , Ingress Protection Test Chamber

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