

Guangdong, China

YX-IPX19B-R400

usd+20000-50000+pcs

wooden box package

100+pcs+30

1 pcs

ISO 20653:2013, DIN 40050-9:1993, IEC60529:2013 VW 80000:2017 LV124 K-10

Integrated IPX1-9K R400 Rain Test Chamber for Drip to Jet Water Ingress Testing

Basic Information

- Place of Origin:
- Brand Name: YueXin
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- · Packaging Details:
- Delivery Time:
- 30-45 days Payment Terms: T/T
- Supply Ability:



Product Specification

Product Name:

Ingress Protection Climatic Chamber, IPX1-9K Waterproof Test Machine

- Turn Table Load Bearing:
- Service Environment:
- Rotating Speed:
- Turntable Tilt:
- Controller:
- Diameter Of Detachable Turntable:
- Type:
- Highlight:

40KG

- Drip、Rain、Splash Water、Water Spray、 Powerful Water Spray、 High Temperature And High Pressure Steam Jet
- 1-5 Rounds Per Minute
- 0° or 15° (horizontal Direction)
 - 7-inch Touch Screen + PLC

400mm

IPX1 IPX2 IPX3 IPX4 IPX5 IPX6 IPX9 IPX4K IPX6K IPX9K

Integrated Rain Test Chamber, Jet Water Ingress Rain Test Chamber, **Drip Rain Test Chamber**



Our Product Introduction

Integrated IPX1-9K R400 Rain Test Chamber for Drip to Jet Water Ingress Testing

Generl specifications:

Dimension	Outer : L1350*W1080*H1900/ L400*W2500*H1300; Inner : W 900×D 900×H 1050(mm)
Material	External : steel plate; Internal : 304 stainless steel
Power supply	380V/50HZ
Power	18.0kw

Product presentation:

The IPX1-9 waterproof test chamber is a comprehensive waterproof test chamber that encompasses 10 waterproof rating levels, namely IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, IPX9, IPX4K, IPX6K, and IPX9K. From IPX1 to IPX9, the waterproof capability gradually increases, with IPX1 indicating no effect from vertically dripping water, and IPX9 indicating no effect from high-temperature, high-pressure water jetting. The intermediate levels progressively enhance waterproof performance.

A protective cover is installed at the bottom of the drip tank to prevent the head from being hurt by the nozzle during operation. 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 (Spray water from back to front).

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.

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.

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 ⁷.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple language\$. Test time setting: 0-999min⁹.

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

Usage environment:

The IPX1-9 waterproof rating system encompasses various degrees of water resistance, suitable for a multitude of applications ranging from basic outdoor lighting fixtures to high-end diving equipment and underwater photography gear, among others. Choosing the right waterproof rating according to the actual usage environment is crucial.

Standard features for IPX1/2:

Item	Parameter	
Drip area	600×600mm	
Diameter of nozzles	0.4mm	
Distance between nozzles	20mm	
Water flow(IPX1) ¹⁰	0.36-0.54 L/min	
Water flow(IPX2)	1.08-1.26L/min	
Drip distance ¹¹	200mm	

Standard features for IPX3/4K:

ltem	Parameter			
Radius of swivel tube ¹²	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 ¹³			
Distance between nozzles	50mm			
Speed of rotation of the swivel tube	60 degree/s			
Swing pipe angle	IPX3 : 120º; IPX4/IPX4K : 350º			
Water volume flow	IPX3(L/min) : 1.1 ; IPX4(L/min) : 1.8 ; IPX4K(L/min):15.0			
Flow error range	±5%			

Standard features for IPX5/6K:

ltem	Parameter
Diameter of nozzles	IPX5,IPX6K : 6.3mm;
	IPX6 :12.5mm
	IPX5 : 12.5±0.625 L/min
Water flow	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:

-	12
Item	Parameter
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 φ200mm 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 The data is calculated based on the dripping area, IPX1: $0.6 \times 0.6 \times (0.001-0.0015)=0.00036-0.00054$ m³/min(that is 0.36-0.54L/min).

11 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.

12 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. 13 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 a	and IPX4 test conditions -	
	Mean flow rat	e per hole	$q_{VI} = 0$	0,07 l/min	

Tube radius R mm	Degree IPX3		Degree IPX4		
	Number of open holes N ¹⁾	Total water flow q_{v} I/min	Number of open holes N ¹⁾	Total water flow q _v I/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	

14 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.

15 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.

16 The user needs to prepare an air compressor in advance (recommended gas storage capacity > 40L). If you need us to buy it on your behalf, you need to explain in advance.

17 The photos may not match the actual ones, and are for user reference only.

Product detail photo:



high pressure nozzle

Tags: Waterproof Testing Machine , IP Grade Climatic Chamber , IPX1-9K Environmental Machine

