



## R600 IPX1-4 Drip And Rain Test Machine With Low Noise And Precise Swing Angle

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-IPX14B-R600
- 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

- Test Function: IPX1 IPX2 IPX3 IPX4
- Turn Table Diameter: 600mm
- Controller: 7-inch Touch Screen + PLC
- Commodity Name: IP Grade Climatic Chamber , IPX1-4 Waterproof Testing Machine
- Rotating Speed: 1-5 Rounds Per Minute
- Turn Table Load Bearing: 50KG
- Experimental Scenarios: Drip、 Rain、 Splash Water
- Turn Table Lifting Height: 600 To 1000mm (from Table Surface To Internal Bottom)
- Highlight: **IPX1-4 Drip And Rain Test Machine, Drip Rain Testing Machine Low Noise**



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## Product Description

### R600 IPX1-4 Drip and Rain Test Machine with Low Noise and Precise Swing Angle

#### General specifications:

Dimension	Outer : Approx W 1750×D 1550×H 2100 (mm); Inner : W 1300×D 1300×H 1450 (mm)
Material	External : steel plate; Internal : 304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

#### Application:

The IPX1-4 comprehensive waterproof test chamber is widely used in various fields such as electronics, automotive industry, and home appliances. It is used to simulate different water flow conditions and evaluate the waterproof performance of products under vertical dripping, oblique dripping, spraying, and other environments, ensuring product quality and reliability.

#### Product structure:

Suitable for assessing waterproof ratings spanning from IPX1 to IPX4, this comprehensive testing chamber incorporates a built-in water reservoir system. This allows for the reuse of test water, enhancing environmental sustainability and reducing energy consumption.

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 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>5</sup>.

A protective cover is installed at the bottom of the drip tank to prevent body 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.

The flow rate is manually adjusted with a glass flow meter<sup>6</sup>.

There is a waterproof lighting inside, which is convenient for users to observe the test situation.

Test time: 0-999min<sup>7</sup>.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple languages<sup>8</sup>.

Protection measures: short circuit protection, water shortage alert.

#### Technical data for IPX1/2:

Item	Parameter
Drip area	1000×1000mm
Diameter of nozzles	0.4mm
Distance between nozzles	20mm
Water flow(IPX1) <sup>9</sup>	1.0-1.5 L/min
Water flow(IPX2)	3.0-3.5 L/min
Drip distance <sup>10</sup>	200mm

#### Technical data for IPX3/4:

Item	Parameter
Radius of swivel tube	R600
Diameter of swivel tube	1200mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	0.4mm
Number of nozzles of swivel tube	See remark <sup>12</sup>
Distance between nozzles	50mm
Speed of rotation of the swivel tube	60 degree/s
Swing pipe angle	IPX3:120°; IPX4:350°
Water volume flow	(IPX3) 1.8 L/min
Water volume flow	(IPX4) 2.6 L/min
Flow error range	±5%
Flow meter range	0-4.0 L
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

#### 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 30kg, 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 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.
- 7 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.
- 8 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.
- 9 The data is calculated based on the dripping area, IPX1:  $0.6 \times 0.6 \times (0.001 \sim 0.0015) = 0.00036 \sim 0.00054 \text{ m}^3/\text{min}$  (that is 0.36~0.54L/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

<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.

- 13 The user needs to prepare an air compressor in advance (recommended gas storage capacity > 30L). If you need us to buy it on your behalf, you need to explain in advance.
- 14 The photos may not match the actual ones, and are for user reference only.

#### The product image:



control panel

**Tags:** IPX1-4 Waterproof Grade Test Chamber , Water Drip and Rain Spray Testing Machine , Waterproof Test Equipment



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