

## Product Information

## Waterproof Tester | WT 02 - Vertical Rain-Drip Tester - Testing Chamber



**Principle:** Simulate the damage of natural water (rain, seawater, river water, etc.) to products and materials, and waterproof testing of product casings.

**Application:** For electrical products, outdoor lamps, electrical cabinets, electrical components, automobiles, motorcycles and their components and other products in simulated rainy climate conditions, the physical and other related properties of the product tested. After testing, the performance of the product is determined to meet the requirements, in order to facilitate product design, improvement, verification and factory inspection use.

**Standard :**

IEC60529:2013,

GB/T4208-2017 Housing Protection Rating (IP Code) 14.2.1, 14.2.2 and Figure 3

GB7000.1 Lamps Part I: General Requirements and Trials 9.2.3

IPX1, IPX2

**Features:**

1. Touch screen control, independently developed operating interface (based on customer requirements to install multiple languages), can directly choose waterproof level, the device will automatically in accordance with the standard terms of the waterproof rating conditions for testing;
2. Core control components use 7-inch touch screen + Panasonic PLC, and electrical components are made using imported brands such as LS .
3. Sample loading table using stepper motor, rotation speed and standard angle can be controlled by touch screen, IPX1 standard speed: 1r/min; IPX2 angle test can be completed automatically: 2.5min rain in 4 positions.
4. With air drying function, after the completion of the test, the water in the drip tank can be removed clean, to avoid long-term water fouling and block the pinhole. **(Note: Customers need to install air sources)**
5. Rain-drip plate: the use of vacuum design, the use of high rust-proof stainless steel material manufacturing.
6. Equipment shelf : manufactured from high-quality aluminum profiles.
7. sample turntable: US304 stainless steel plate processing and manufacturing.
8. The equipment has a built-in circulating water tank, recycled water, and the water tank structure is designed to be easy to clean. The water level of the water tank is automatically controlled and there is a high and low water level alarm detection.
9. The test chamber is equipped with a sample power outlet (standard AC220, 10A; can be customized on demand), then sample can be tested live.
10. The equipment base is equipped with 4 moving casters for easy movement and fixation, and With storage box, can put some tools in.

**Technical parameters :**

Apply to the product	IPX1, IPX2 test
Raindrop area	600*600 mm
Diameter of the drip hole	∅ 0.4mm
Diameter of the turntable	∅ 600 mm
Inner box size	<b>800*800*1000 mm</b>
Rainfall	IPX1=1mm/min(+0.5mm/min); IPX2=3mm/min(+0.5mm/min)
Water volume regulation	Manual control
Raindrop board lift range	<b>Non-lifting (fixed, sample platform lifting)</b>
Turntable lift range	<b>400-700 mm</b>
Turntable loads	50kg
Angle of the turntable	0°OR 15°(Horizontal direction)
<b>Turntable speed</b>	<b>1 r/min (IPX1)</b>
Test time	0-999 min
Safety protection	Leakage protection, water shortage protection, short-circuit protection
Dimensions	1230*1340*2430 mm
power supply	AC220V±10% ; 50Hz ,1.0kw, Fire line+zero line+protective ground line(Resistance<4Ω)
Sample load power supply	AC220V±10% ; 50Hz

**Terms of use :**

Environmental requirements	<ul style="list-style-type: none"> <li>● Ground is flat, drainage is smooth, the ground and walls are waterproof, setting ground leakage or drainage ditches.</li> <li>● Well ventilated.</li> <li>● No strong electromagnetic field around.</li> <li>● No flammable, non-explosive, non-corrosive substances and dust around .</li> <li>● Rack and control box Distance: 800-1000mm.</li> </ul>
Temperature	5℃~35℃
Humidity	≤85%
Atmospheric pressure	86kPa~106kPa
Power supply conditions	<ul style="list-style-type: none"> <li>● Install the appropriate capacity of the leakage protection air switch for the device, the switch must be used independently of the device.</li> <li>● Do not use the knife-switch or power outlet.</li> <li>● Distance is no more than 2m from the air switch of creepage and equipment .</li> </ul>
Water conditions	<ul style="list-style-type: none"> <li>● The water pressure is not less than 0.2Mpa and a 4-point tap is installed.</li> <li>● The tap is no more than 2 meters away from the device.</li> </ul>
Gas conditions	<ul style="list-style-type: none"> <li>● Customers are required to bring their own air compressor or gas source, we recommended gas source pressure: 0.6-0.8Mpa</li> </ul>

Accessories:

1. Filter element: 1pcs;
2. Test needles: 100 pcs;
3. Brass drip pin holder: 20 pcs



Inner