

**Custom Solution** 



This product is suitable for assessing whether the shells and seals of electrical products can guarantee the good performance of equipment and components under rainy environment. The product adopts scientific design, which makes the equipment can realistically simulate various environments such as dripping, drenching, splashing and spraying.

Thanks to the use of comprehensive control system and frequency conversion technology, the rainfall test specimen rack rotation angle, the swing angle of the water spray pendulum and the amount of water spray swing frequency can be automatically adjusted.

### **Technical Parameter:**

Size and material of the inne	Size and material of the inner chamber		
Inner chamber size	800×800×800mm (W*D*H)		
	1200×3600×1720mm (W*D*H) , the spray bucket is		
External chamber size	retractable		
Inner chamber material	SUS304, stainless steel		
External chamber material	SUS304, stainless steel		
Parameter of IPX12			
Drip tank size	600×600mm (W*D)		
Distance between drop	200 mm		
tank and sample			
Drip hole diameter	φ0 .4 mm		
Spray aperture spacing	20 mm		
Rainfall	IPX1:1+0.5mm/Min;IPX2:3+0.5mm/Min		
Tilt Angle of IPX2	Equipped with a 15° tilt device		
Duration of test	10min or more time (configurable)		
Air pressure cleaning	After the test is completed, the drip tank water is automatically		
	drained, and then the air is injected for 3 minutes, and the time		
	can be set. The customer shall provide more than 5kg air		
	source		

Parameter of IPX12		
Blowhole diameter	0.4 mm	
Spray aperture spacing	50 mm	
Pendulum radius	300mm	
Blowhole flow	1. With the vertical direction $\pm 60^{\circ}$ range of water, the	
	maximum distance is 200mm;	
	2. The Angle is $\pm 180^{\circ}$ from the vertical direction;	
	3. Each hole (0.07 $\pm$ 5%) L/min multiplied by the number of	
	holes	
Nozzle Angle	120° (IPX3) 、180° (IPX4)	
Angle of oscillation	±60° (IPX3) 、±180°接近 (IPX4)	
Nozzle swing speed	IPX3 15 次/min; IPX4 5 次/min	
Duration of test	10min or more time (configurable)	
Rain pressure	50~150kPa	
Parameter of IPX56		
Number of spray heads	Two; One IPX5 nozzle and one IPX6 nozzle	
Inner diameter of the	φ6.3 mm (IPX5 等级); φ12.5 mm (IPX6 等级)	
nozzle		
Spray flow	12.5±0.625(L/min) (IPX5 grade); 100±5(L/min) (IPX6 grade)	
Spray distance	2.5 m (distance between nozzle and center of turntable)	
Pipe diameter	Four points, one inch of soft pressure pipe each	

	Water spray test time at least 3min or more time (can be set)	
Spray test time	At least 3 minutes or more (configurable)	
Water spray pressure	30 ~ 100kPa (adjusted by flow rate)	
Turntable system		
Turntable diameter	400 mm	
Turntable bearing	20 kg	
Rotary speed	1 ~ 3 R/min (adjustable)	
The turntable is positive	Turntable with positive, reverse function; Each test hole	
and reversed	diameter is 50mm	
Equipment service conditions		
Environmental condition	Temperature 15°C ~ 35°C; Relative humidity 25%RH ~	
	75%RH; Atmospheric pressure 86kPa ~106kPa	
Inlet pipe and drain pipe	4 Separate pipes. After planning the device placement, connect	
diameter	the water inlet pipe and drain pipe in advance.	
Power source	380V( 3 ∮ 5 wire, a separate 32A air switch, the air switch	
	should have wiring terminals,	
	Power cord to more than 4 square; 50Hz; Approx. 5.5KW	
	(equipment power).	

#### **Structure chart:**

#### 1. The whole machine



#### 2. The inner chamber

