

Summary:

This Rain water resistance spray testing is used to simulating the lighting , auto parts , household appliances and other products in condition of moisture or rain , to see the influence of water to the products. Through this can test the resistance to the rain penetration and moisture proof ability of products. Rain spray testing through a rigorous scientific design, making it can realistically simulate dripping rain, splashing water , water spray and other environment. It uses advanced controlling system and inverter technology , making the rotation angle of the specimen frame, the swing angle of the oscillating bar and the water swing rate can be automatically adjusted.

NEWGOER TEST EQUIPMENT

Your Lab Consultant

NG-LY IPX Water Proof Test Chamber



Standard:

GB2423.38 - 90 , GB5170.20 -90 , GB 4208-93, IPX4 waterproof test methods etc...

Features:

1. Comply with requirement of IEC60529 standard IPX3 water pouring test and IPX4 water splash test.
2. The test sample will be put or installed on the center of the half-round sinuous pipe and make the bottom of the test samples and the oscillating axis in a horizontal position. During test, the sample would spin around the center line.
3. Can manual default the test parameters, complete testing automatically shut off the water supply and pendulum pipe angle automatic zeroing and automatic eliminate seep, avoid scale blockage needle tip.
4. Inner case's material is imported steel plates; shell is made of #304 stainless steel.
5. Water pressure and flow rate adjustable.
6. Unique sprinkler can stably control the rain quantity and pressure.

Specifications:

IPX1, IPX2

Water drop rate: 1~5mm/min (± 0.5 mm/min)

Water falling area: 0.4m²

Distance between water drop holes: 20x20mm

Drip hole: $\Phi 0.4$ mm

Test table angle: 0° and 15° respectively.

Water supply pressure: ≥ 0.01 Mpa

IPX3, IPX4

Internal Dimension(W*D*H): 800*800*800mm

Test Speed (rpm): 1~5 can be adjustable, wheel diameter 300mm, can be adjustable 15° tilt angle, rotary table height is adjustable 200mm.

Water ring radius: 300mm

Nozzle hole: ϕ 0.4mm, Pitch of holes: 50mm

Pendulum Swing tube range: About $\pm 180^\circ$ (can adjustable to $\pm 45^\circ \pm 60^\circ \pm 90^\circ$)

The flow of each blowhole : 0.07 L/min +5%

Spray nozzle swing speed : IP3 15 times/min; IP4 10 times/min

Environment temperature: RT~50°C

Environment humidity: $\leq 85\%RH$

Test of time : 1-999,999min (Can be set)

The water pressure: 80~150Kpa (Can be Adjusted)

Power: 220V 50Hz



Method and Principle:

Second characteristic numeral	Test means	Water flow rate	Duration of test	Test conditions, see
0	No test required	—	—	—
1	Drip box Figure 3 Enclosure on turntable	$1^{+0,5}_0$ mm/min	10 min	14.2.1
2	Drip box Figure 3 Enclosure in 4 fixed positions of 15° tilt	$3^{+0,5}_0$ mm/min	2,5 min for each position of tilt	14.2.2
3	Oscillating tube Figure 4 Spray $\pm 60^\circ$ from vertical, distance max. 200 mm or Spray nozzle Figure 5 Spray $\pm 60^\circ$ from vertical	0,07 l/min $\pm 5\%$ per hole, multiplied by number of holes	10 min	14.2.3 a)
		10 l/min $\pm 5\%$	1 min/m ² at least 5 min	14.2.3 b)
4	As for numeral 3 Spray $\pm 180^\circ$ from vertical	As for numeral 3		14.2.4

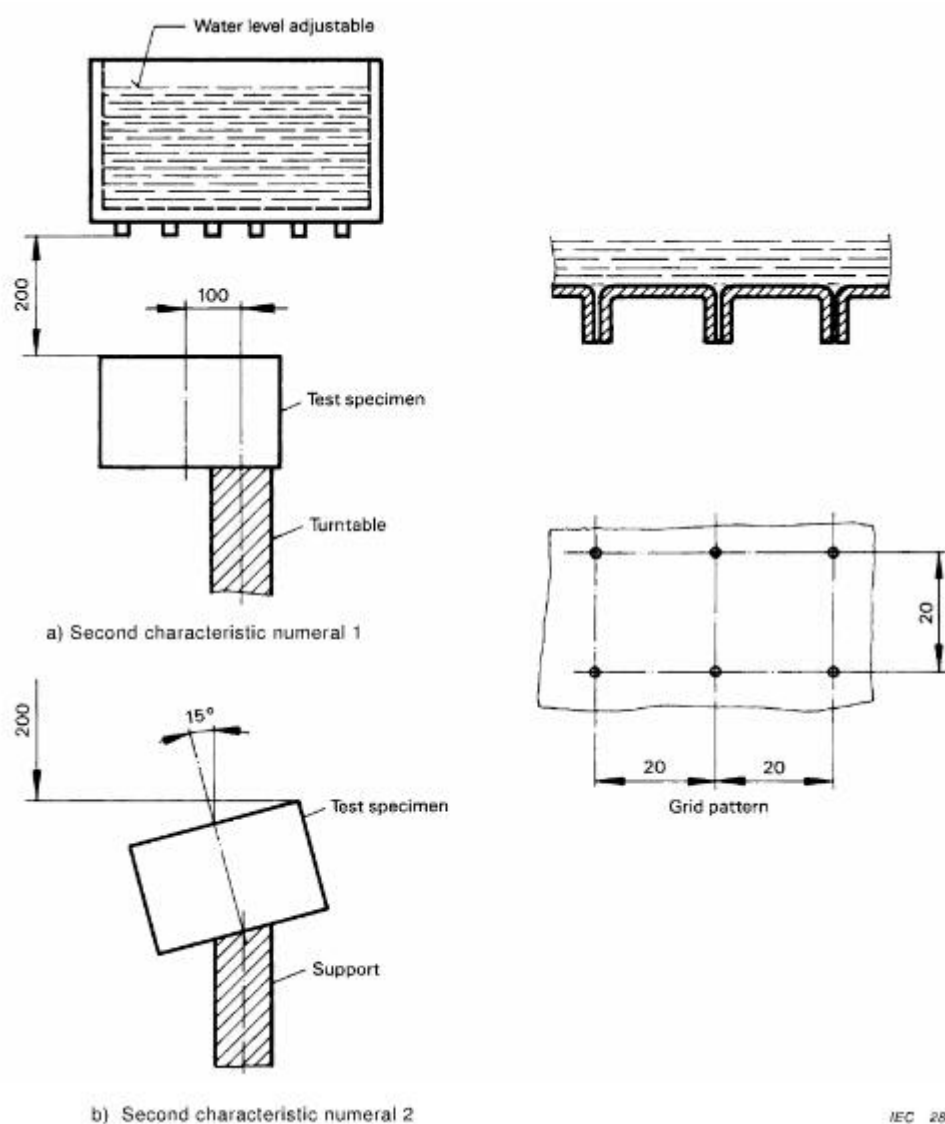


Figure 3

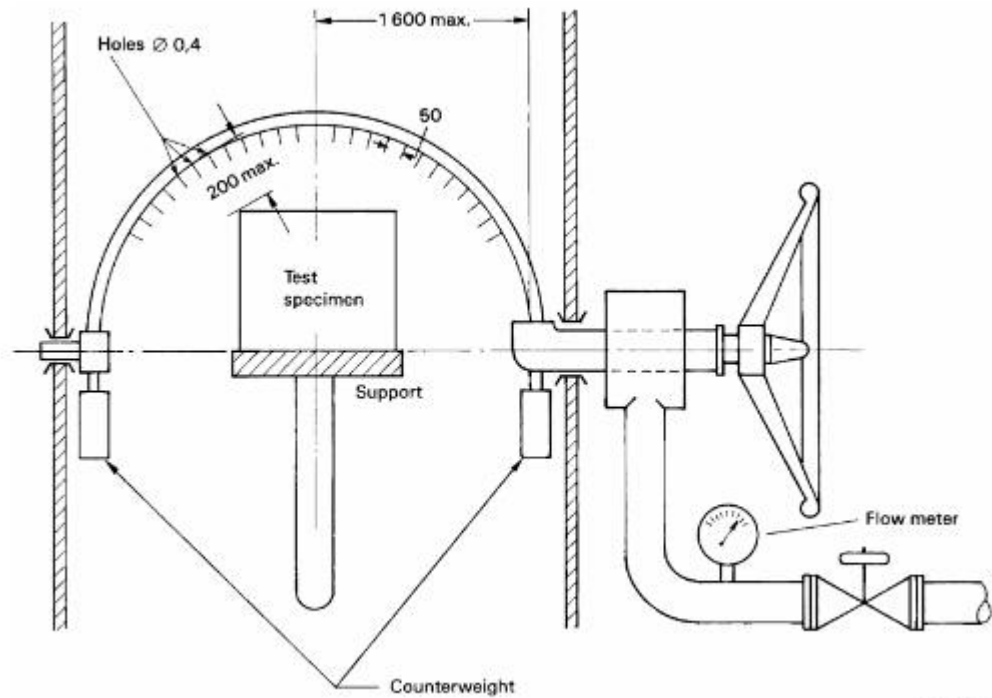
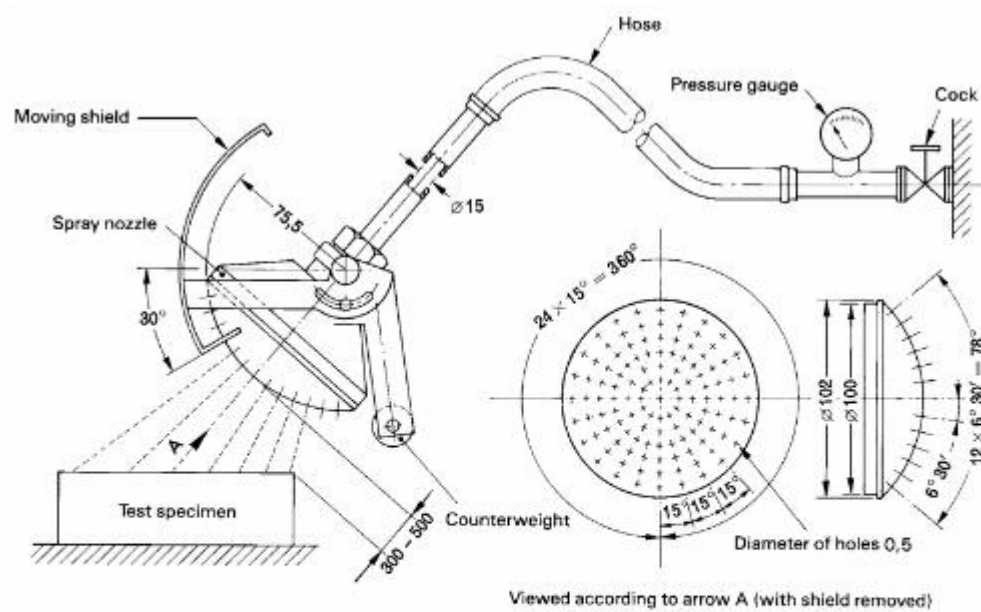


Figure 4

IEC 282/01



IEC 283/01

Dimensions in millimetres

- 121 holes of $\varnothing 0,5$;
- 1 hole at the centre
- 2 inner circles of 12 holes at 30° pitch
- 4 outer circles of 24 holes at 15° pitch
- Moving shield – Aluminium
- Spray nozzle – Brass

Figure 5