

CINSUN

Stable Reliable Consistent



Rainproof Tester
G230D



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G230D Rainproof Tester — Material Water Repellent Test

G230D Rainproof Tester can detect the water repellency of fabrics or composites under different rain pressures. It is used to simulate the rainfall spraying from the horizontal direction to the fabric to be tested that is fixed vertically in the stainless steel inner groove. The back of the sample is cling against the standard absorbent paper (weighing before and after the test). The water in the water column is sprayed by standard nozzles to form rain, and the water volume of the water column can be adjusted from 600 mm (24 inches) to 2400 mm (96 inches) in increments of 300 mm (12 inches).

G230D Rainproof Tester

1. The rainproof tester simulates the rainwater of different temperatures and pressures continuously from the horizontal direction spraying to the sample to be tested vertically fixed in the stainless steel inner groove for detecting the water repellency of the fabric or multilayer composite. The common test samples include various types of water-repellent materials such as umbrellas, raincoats, and protective clothing fabrics, which provide direction and basis for the development of related products, and are also necessary testing instruments for the inspection and acceptance of products. During the test, the nozzle simulates rain from the horizontal direction spraying to the fabric to be tested vertically fixed in the stainless steel inner groove, and evaluates the water repellency by the weight gain of the absorbent paper on the back of the material.

2. Through accurate algorithm, the amount of water sprayed and the amount of replenished water are guaranteed to be the same. To ensure that the liquid level in the water column is stable at the set value, thus ensuring constant pressure and high test accuracy.



Standards compliant

AATCC 35

BS EN ISO 22958

GB/T 23321

G230D Rainproof Tester — Several Major Features

Intelligent touch screen control panel



PLC control system is more efficient and reliable, which can be programmed by 7-inch color LCD touch screen to achieve control, detection, calculation, data display and other functions.



Ingenious work station design can be easily switched

The tester has a compact structure, the lower reservoir connected with upper water pump, achieving water circulation use and energy conservation.



High degree of automation

The tester has built-in ISO, GB, AATCC standard test procedures, and can also customize the program, menu operation, direct selection of standard water temperature, water column height, test time and other parameters, in order to meet the test of different needs.



Imported accessories

The PID control algorithm cooperates with the imported high-precision pressure sensor to achieve precise control of the pump action, maintain the water column height and ensure the water pressure is constant. The temperature sensor precisely controls the water temperature.



Stainless steel body

The enclosure of the tester and all parts in contact with the liquid are made of SUS316L to prevent the rust and corrosion of parts due to the external environment, thus improving the accuracy, repeatability of the test data and service life.

G230D Rainproof Tester — Field Application



G230D Rainproof Tester is suitable for the waterproof performance test of umbrellas, raincoats and protective clothing fabrics, and can also provide direction and basis for related product development.



It is applicable to the performance verification of new products, quality control of the production department, and the material properties for the third-party testing organization, the product performance verification laboratory, and the quality and technical supervision department, etc.



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G230D Rainproof Tester— Configuration parameter

Standard configuration



230D01



230D02

2400 meters water column

American standard sample folder

Optional Accessories



230D03



230D04



230D05

AATCC Absorbent paper

AATCC Nozzle

European standard sample holder

Technical Parameters

Test water column: 60-150cm \pm 1.5cm (standard); 60-240cm \pm 1.5cm (extended)	Heating power: 1000W Reservoir:40L
Water temperature uniformity: \pm 1 °C	Water source: tap water or distilled water
Working method: fully automatic	Nozzle specifications: 13 pieces, ϕ 0.99mm
Control mode: PLC + touch screen	Weight:125Kg
Distance between the nozzle and the sample holder: 305mm	Power supply:220V 50Hz
Sample holder size:40mm*285mm*190mm	Appearance size: 810mm*610mm*1450mm



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