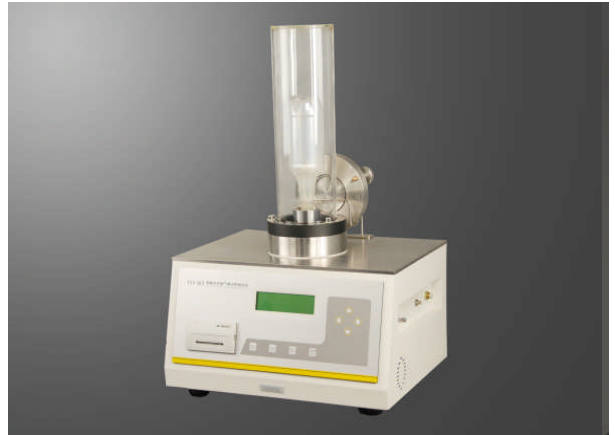


TSY-W3A Electrolytic Detection Method Water Vapor Permeability Tester

Labthink®

Electrolytic detection method water vapor permeability tester is applicable for water vapor permeability test of various packaging materials (such as plastic films, laminated films, etc.) , many kinds of barrier materials in pharmaceutical industry and finished packages (such as plastic bottles). Users can control and adjust the technical index by testing the water vapor transmission rate. In product application, it can satisfy different necessities of users.



Characteristics

Electrolytic method, computer controls, high accuracy and test automatically.

Highly sensitive, accurate and reliable test data.

Adjustable test temperature and humidity, easy to fulfill different test conditions.

System generates test environment independently, no requirements about lab conditions.

LCD display, test data is clear at a glance.

World-famous brand elements with stable and reliable

performance

Friendly human-equipment interaction, easy to operate.

RS-232 port communication, professional software support, perspicuous test process.

Functions of data storage, research, print, plot and communication.

Principle

Place the specimen between dry and humid chambers, saturated water vapor will transmit through specimen from the upper chamber to the lower chamber and then be carried to the sensor, which generates electrical signal at the same time. Determine the mass of water vapor transmission and water vapor transmission rate by analyzing and calculating the sensor's electrical signal.

Technical Data

Test range: 0.001~0.19 g/pkg•day (normal)

Temp. control range: 5°C~95°C

Temp. control accuracy: $\pm 0.1^{\circ}\text{C}$

Humidity range: 100%RH, 0%RH, 2%RH~98.5%RH

saturated salt solutions standard 90%RH

Carrier gas flux: 100 ml/min

Bottle body: less than $\Phi 120\text{mm}$, height is less than 360mm;

Bottleneck: diameter of inner bottleneck $> \Phi 9\text{mm}$, diameter of outer bottleneck $< \Phi 50\text{mm}$ (normal)

Carrier gas: 99.999% high pure nitrogen

Dimension: 500mm(L) x 400mm(B) x 360mm(H)

Power: AC 220V 50Hz / 60Hz

Net weight: 36kg

Standards

ISO 15106-3, DIN 53122-2, YBB 00092003

configuration

Standard: Mainframe, temperature controller, software, bottle accessories.

Note: Test gas, distilled water and salt reagent should be provided by users themselves.