

TSY-W3 Electrolytic Detection Method Water Vapor Permeability Tester

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.) and many kinds of barrier materials in pharmaceutical industry. 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.

1. 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 store, research, print, plot and communication.

2. 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.

3. Structure:

It is made up with mainframe and outer circulate controller. Mainframe implements specimen test and outer circulate controller supply test conditions.

4. Technical data

- Test range: 0.001~50 g/m².24h (normal)
0.01~1000 g/m².24h (optional)
- Test temperature: 0~100°C (Adjustable)
- Temperature accuracy: ±0.1°C
- Humidity range: 100%RH, 0%RH, 11~98%RH (saturated salt liquid) standard 90%RH
- Carrier gas flux: 100 ml/min
- Test area: 38.48 cm²
- Specimen size: φ100 mm
- Carrier gas: 99.999% (High pure nitrogen)
- Carrier gas pressure: 20~30 kPa
- Power consumption of outer controller: 1000W
- Dimension: 500(L) mm x 400(B) mm x 360(H) mm
- Power: AC 220V 50Hz
- Net weight: 36kg

5. Configuration

Mainframe, circulate controller, adjustable valve, desiccant.

Note: Users provide gas resource themselves.

