

TSY-W3

Electrolytic Water Vapour Permeability Tester

The TSY-W3 Electrolytic Water Vapour Permeability Tester is used for water vapour permeability tests 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 vapour transmission rate.

Principle

Place the specimen between the dry and humid chambers, saturated water vapour will transmit through the specimen from the upper chamber to the lower chamber and then be carried to the sensor, which generates an electrical signal at the same time.

Determine the mass of water vapour transmission and water vapour transmission rate by analyzing and calculating the sensor's electrical signal.

Structure

The unit is made of a mainframe and outer circulate controller. The mainframe implements specimen test and the outer circulate controller supplies test conditions.

Configuration

Mainframe, circulate controller, adjustable valve, desiccant.

Note: compressed air provided by customers.



Features

- Electrolytic method, computer controls, high accuracy, tests automatically
- 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, perspic
- Functions of data storage, research and print

Physical specifications

Dimensions

500 x 400 x 360 mm (LxWxH)

Net Weight

? kg

Standards

ISO 15106-3, DIN 53122-2

Technical data

Test range

0.002 - 50 (1000) g / m² 24h

Test temperature

0 - 100 °C (adjustable)

Temperature accuracy

± 0.1 °C

Humidity range

0 - 100 % RH (salt fluid)

Carrier gas flux

100 ml/ min

Test area

38.48 cm²

Specimen size

Ø 100 mm

Carrier gas

99.999 % (high pure nitrogen)

Carrier gas pressure

20 - 30 kPa

Outer controller

1000 W

Power

AC 220 V 50 Hz

Power consumption

450 W

"Partners in Quality"