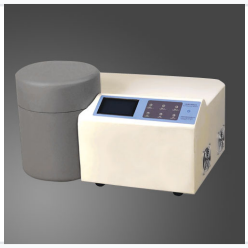
Gas Permeation Analyzer for Transmission Rate Testing

This gas permeation analyzer tests the gas transmission rate (GTR) of packaging material. It is widely used in the pharmaceutical industry and for flexible packaging materials.

Measuring range	0.02-5000 cm3/m2 .day.0.1Mpa 0.2-50000 cm3/m2 .day.0.1Mpa(by use expansion the mode)
Measuring accuracy	0.01cm3/m2.day.0.1Mpa
Testing temperature range	15℃-45℃,
Temperature precision	±0.1℃
Resolution ratio	0.1pa
Vacuum	< 20pa
Carried gas inlet	1/8 inch
Sample thickness	≤2mm
Dimension	700(L)mm×520(W)mm×1000(H)mm
Power supply	AC220 V/50Hz
Sample area	Φ80mm, transmission area 50.24cm2,(no stipulate for area in international)

ADDITIONAL IMAGES



Overview

N500 Gas Permeation Analyzer

The N500 is a specialized instrument designed for testing the gas transmission rate (GTR) of various packaging materials, including plastic films, barrier materials, and metal foils. It utilizes the differential pressure method to provide accurate permeation testing for gases such as O2, CO2, and N2. This analyzer is essential for quality control and research in the food, pharmaceutical, and cosmetics packaging industries.

Performance Metrics

Standard Measuring Range

0.02 cm3/m2·day·0.1MPa
Min Range

5000 cm3/m2·day·0.1MPa
Max Range

Expanded Measuring Range

0.2 cm3/m2·day·0.1MPa
Min Range (Expanded)

50000 cm3/m2·day·0.1MPa
Max Range (Expanded)

Technical Specifications

Accuracy & Resolution

Parameter	Value
Measuring Accuracy	0.01 cm3/m2·day·0.1MPa
Resolution Ratio	0.1 Pa
Vacuum Level	< 20 Pa

Testing Conditions

Feature	Specification
Temperature Range	15°C - 45°C
Temperature Precision	±0.1°C
Sample Thickness	d 2mm
Sample Area	80mm diameter
Transmission Area	50.24 cm2

Standards & Compliance

Supported Standards	ISO 2556-2001, ISO 15105-1, GB/T 1038-2000, ASTM D1434-82 (2003), YBB00082003

Physical Attributes

Physical & Power Specs

- Dimensions: 700mm (L) x 520mm (W) x 380mm (H)
- Power Supply: AC220V / 50Hz
- Carried Gas Inlet: 1/8 inch

Applications

Industry Applications

Food Industry • Pharmaceutical Industry • Cosmetics Packaging • Flexible Packaging • Research & Quality Institutions