

AQUATRAN® MODEL 3



Highest Sensitivity for the Most Demanding Applications

Companies around the world depend on MOCON permeation data to make decisions critical to product development and product quality. Ultra-high barrier materials may have long test times, but these tests don't have to stress your labor resources.

The AQUATRAN Model 3 water vapor permeation instrument is designed specifically to increase your lab's efficiency, streamline your operations, and improve throughput. Your operators will now spend less time setting up and monitoring permeation tests, allowing them to achieve more in less time.

A new user interface and increased automation makes testing easier than before with less skill required, reducing the costs associated with training new employees or transitioning responsibilities within your company. In certain applications, starting a new test may be as simple as a single press of a button. Your operators can now pre-program a variety of tests and different conditions and run them sequentially without operator intervention, resulting in less instrument idle time.

Absolute Precision

- Most efficient water sensor
- No calibration required

Optimized Productivity

- Save on labor hours with less in-test monitoring
- Remote access and control

User Friendly

- Fully automated temperature and humidity controls
- Simplified sample preparation
- Touch screen interface



WVTR TESTING FOR ULTRA-HIGH BARRIERS

DATA SHEET

Reducing operator dependent variables, the world's most precise and repeatable water vapor permeation instrument has even greater repeatability. This enables your permeation test data to be more consistent across multiple instruments and locations, improving data comparison with customers and suppliers.

Patented AQUATRACE® Sensor

Using a patented coulometric sensor, the AQUATRAN Model 3 provides the most precise and repeatable water vapor permeation data available on the market today. This sensor is a unique coulometric phosphorous pentoxide sensor that is absolute and follows Faraday's law, therefore requiring no calibration.

Application Solutions

The AQUATRAN Model 3 is available with a wide variety of custom diffusion cells and accessories to support many unique applications. These components provide flexibility to test more sample types, including whole packages and assemblies, at a wider range of test conditions, including 85°C and 85% RH when controlled by an external environmental chamber. Ask your MOCON representative for a PermaAUDIT to help determine the best solution for you.

Industry Standards

- ISO 15106-3

Test Conditions

Test Temperature Range	5°C to 50°C $\pm 0.2^\circ\text{C}$ when testing at 100% RH 10°C to 40°C $\pm 0.2^\circ\text{C}$ when testing with precise RH
Controlled RH Testing Ranges	Test Gas: 5% to 90% and 100% Carrier Gas: Dry Nitrogen

Technical Specifications

	Test Ranges			Resolution	Repeatability
	$\text{g}/(\text{m}^2 \cdot \text{day})$	$\text{g}/(100 \text{ in}^2 \cdot \text{day})$	$\text{g}/(\text{pkg} \cdot \text{day})$	$\text{g}/(\text{m}^2 \cdot \text{day})$	$\text{g}/(\text{m}^2 \cdot \text{day})$
Normal (50cm ²)	0.00005 to 5	0.000003 to .3225	0.00000025 to .025	0.00001 $\text{g}/\text{m}^2 \cdot \text{day}$.00005 $\text{g}/\text{m}^2 \cdot \text{day}$ or 1%
Reduced (5cm ²)	0.0005 to 50	0.00003 to 3.225	N/A	N/A	N/A



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