PERMATRAN® 3/34 SERIES WATER VAPOR PERMEATION ANALYZER

High Performance Water Vapor Permeation Analyzer

The PERMATRAN-W 3/34 Series high-performance analyzers are the industry's most trusted Water Vapor Transmission Rate (WVTR) instruments for testing low- to high-level barriers.

The accuracy and wide testing capability of the 3/34 Series make it an ideal WVTR instrument for both research and development or production support laboratories. It has the capability to test flat barriers such as mono-layer to multi-layer films, coated films to coated paper board, and specialty applications such as gels or lotions.

With the optional adapter cartridge it can also test additional applications such as complete or partial packages, flexible or rigid containers, bottles and/or closures, and seals in the form of O-rings or gaskets.

The interchangeable cartridges also work with other Next Generation AMETEK MOCON® permeation analyzers. These purpose-built cartridges increase accuracy, extend the range, or make it possible to test unique or difficult samples.

All test cartridges incorporate our AMETEK MOCON exclusive TruSeal® design utilizing two seals and flushes gas between them to prevent ambient ingress into the test area. This reduces background levels, improves repeatability, and reduces the need to run individual zero.

Precision Measurement with Modulated IR Sensor

Using a patented modulated infrared (IR) technology, this sensor provides accurate and repeatable results. It has the longest life of any WVTR sensor on the market, and the only modulated IR sensor system to meet the ASTM F1249 standard.

Advanced Control System

The user friendly WinPerm2 control system features fully automated testing including temperature, gas flow and RH control. Final test reports are automatically saved and can be set to automatically print and export to permanent storage directories. The analyzer is compatible with PermWare®, your complete permeation laboratory data management system.

The test mode options make testing known or unknown samples easy and repeatable. A single button push initiates a fully automated test following pre-set stored parameters, reducing operator variability. The intuitive color touch screen is easy to learn and use while the automated testing provides consistent results and fewer potential errors.

The Industry's Benchmark in WVTR Testing

The PERMATRAN-W 3/34 Series features our exclusive test cell drawer design with two horizontal removable easy-to-load cartridges. A single button opens and closes the drawers, and the cartridge is automatically clamped in place with consistent and even force on any sample thickness. This approach provides greater test repeatability than manual or cam clamping methods

Performance Specifications

	3/34H	3/34G
Test Temperature Range:	20º to 40º C ± 0.2º C	10°C to 40°C ± 0.2°C
Controlled RH Testing Ranges:	100% and 50% to 90% RH ± 3 RH	100% and 5% to 90% ± 3 RH
Maximum Film Thickness:	Up to 120 mil, 3 mm	
Carrier Gas:	Nitrogen (99.7% N2 or better)	

Industry Standards

ASTM F1249, ISO 15106-2, TAPPI T557, JIS K-7129 Films.
GB/T 26253-2010, GB/T 31355-2014.

Connectivity
- Ethernet Port
- 2 USB Ports
- PERM-NET Lite™ for remote monitoring

Dimensions & Weight
Depth: 23" or 58,0 cm
Width: 12" or 30,4 cm
Height: 15.5" or 39,4 cm
Weight: 95 lbs. or 43,1 kg

Conformance Standards
CE, UL, CSA Safety Compliance