



## **AQUATRAN® MODEL 3 WATER VAPOR PERMEATION ANALYZER**

### **High Performance Water Vapor Permeation Analyzer**

The AQUATRAN 3 analyzer is the industry's most trusted Water Vapor Transmission Rate (WVTR) instrument for high to ultra-high level barriers because it measures each molecule of water vapor. It features two independent cells with interchangeable horizontal test cartridges allowing a wide variety of sample sizes and types to be easily and accurately tested. This analyzer provides test results at the lowest detection level in the industry down to 0.00005 g/(m<sup>2</sup> · day).

The AQUATRAN 3 uses our patented absolute coulometric pentoxide sensor that does not require calibration and conforms with ASTM F3299. It is the longest lasting sensor of its kind on the market. The sensor has a linear output which guarantees the highest accuracy and repeatability throughout its entire detection range.

The accuracy and low detection capability of the AQUATRAN 3 make it an ideal WVTR instrument for research and development as well as for production support for high to ultra-high barriers. It has the capability to test mono-layer to multi-layer films, coated films, and specialty high barrier films such as solar back sheets. An optional adapter cartridge expands the instrument's capabilities to include several different package types and applications; whole packages, flexible or rigid containers, bottles and closures, encapsulation materials, electronics such as OLED and solar panels, blister packs and seals, such as O-rings and gaskets.

## Removable Cartridges

- Easy sample prep on the benchtop
- One button release and loading
- Pneumatic clamping provides more repeatable results
- Interchangeable cartridge options

## TruSeal®

- Gas flushing of sample mounting seal protects chamber integrity
- Lowers background levels improving accuracy at ultra-low detection levels
- Shortened testing time increases throughput
- More repeatable results

## Accessories

- Reduced area cartridge
- Edge effect cartridge
- Blister testing cartridge
- Package testing adapter
- Custom engineered test cartridges
- PermWare® software for data collection and remote monitoring

## Dimensions & Weight

Depth: 23" or 58,5 cm  
Width: 23" or 58,0 cm  
Height: 15.5" or 39,4 cm  
Weight: 95 lbs. or 43,1 kg

## Connectivity

- Ethernet Port
- 2 USB Ports
- Optional PermNet™ Lite for remote monitoring

## Industry Standards

ASTM F-3299-18 • JIS K7129-3 • ISO 15106-3 • GB/T 21529-2008

## Test Conditions

Test Temperature Range: 5°C to 50°C ± 0.2°C at 100% RH or 10°C to 40°C ± 0.2°C at 5 to 90% RH  
Controlled RH Testing Ranges: 100% and 5% to 90% RH ± 3 RH  
Maximum Film Thickness: Up to 120 mil, 3 mm  
Carrier Gas: Nitrogen (99.9999% N2 or better)

## Conformance Standards

CE, UL, CSA Safety Compliance



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