

U.S. Patents Pending

G Model

Technical Specifications:

- WVTR Range
5 x 10⁻⁴ gm/(m² - day) - 5gm/(m² - day)
- Sensor
AQUATRACE™
- Test Temperature Range
(10 - 40 ° C)
- RH
Films - 35 - 90, 100%
Packages - Ambient, 100% RH or
35 - 90, 100% RH with optional
package environmental chamber
- Test Sample Sizes:
Films - 50 cm²
Packages - up to 3 liters per package
- 2 - 50 cm² Test Cells per Module
- Expandable up to 10 modules

Electrical Specifications:

- Voltages: 100, 120, 220 or 240 VAC ± 10%
- Frequencies: 50/60 Hz

W Model

Technical Specifications:

- WVTR Range
5 x 10⁻⁴ gm/(m² - day) - 5gm/(m² - day)
- Sensor
AQUATRACE™
- Test Temperature Range
(5 - 50 ° C)
- RH
Films - 100% RH
Packages - 100% RH
- Test Sample Sizes:
Films - 50 cm²
Packages - up to 3 liters per package
- 2 - 50 cm² Test Cells per Module
- Expandable up to 10 modules

Electrical Specifications:

- Voltages: 100, 120, 220 or 240 VAC ± 10%
- Frequencies: 50/60 Hz

NIST Traceability

MOCON instruments are manufactured traceable to NIST (National Institute of Standards and Technology) and come with a set of N.I.S.T. Traceable system check films. These films confirm that the AQUATRAN system is operating to optimum performance assuring greater precision and accuracy of test data.

MOCON Commitment

The new system is another example of MOCON's 40 year commitment to innovation and quality in the design of permeation testing systems for barrier material and pack assessment.

Consulting & Testing Services

MOCON maintains an applications and testing laboratory to assist customers in realizing the full potential for their MOCON instrument. Seminars and intensive training classes are held for those interested in maximizing their understanding of the systems, technology, and operating procedures. Call your MOCON representative for more information on these programs or for your system quotation.



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High Sensitivity Coulometric Water Vapor Transmission Rate Test System

AQUATRAN™ Model 1

Accurately measures water vapor
transmission rates to 5 x 10⁻⁴ gm/(m²- day)



NEW
Coulometric
AQUATRACE™
absolute water
vapor sensor

mocon®

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AQUATRAN® Model 1, a new, ultra high-barrier water vapor transmission rate test instrument incorporates MOCON's proprietary AQUATRACE™ detection sensor, an absolute sensor for ultimate accuracy.

What makes this unit different from any other water vapor transmission rate test instrument on the market?

The AQUATRAN® Model 1 offers:

- Ten times the measurement sensitivity
- Absolute measurement
- **Aquatrace™ Sensor**
- No calibration required
- Longer sensor life
- Measures to $5 \times 10^{-4} \text{ gm}/(\text{m}^2 \cdot \text{day})$
- Two test cells per module
- Flexibility to add satellite modules
- WinPerm™ Software

For Ultra high-barrier films where accurate and extreme sensitivity is necessary to build performance statistics.

AQUATRAN® Model 1 is ideally suited for developers, manufacturers or converters of ultra high-barrier films, as well as packagers using them to help extend product shelf life.



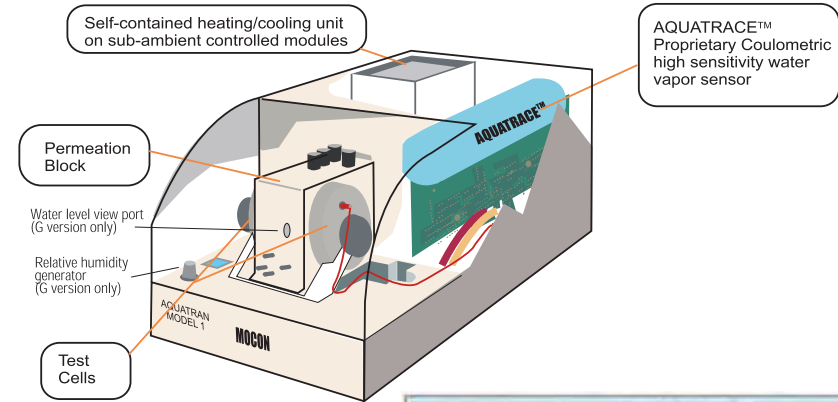
System Certification Traceable to N.I.S.T.

AQUATRAN® Model 1 systems are certified in accordance with N.I.S.T.. Each instrument will be issued a signed Certificate of Compliance and include a set of N.I.S.T. traceable water vapor transmission rate (WVTR) films.

AQUATRACE™ Sensor

This Sensor is a unique Coulometric Phosphorous Pentoxide Sensor that is absolute and follows Faraday's Law. One hundred percent of all water vapor entering this sensor is directly converted to a measurable amount of charge. This chemical conversion follows Faraday's Law.

This Sensor also incorporates MOCON proprietary technology that allows this sensor to be 100% efficient and have a longer life than conventional Phosphorous Pentoxide Sensor Technology.



Actual data from test performed on AQUATRAN low reference film

WinPerm™ software further speeds analysis, assures accuracy and incorporates more data handling capabilities.

The WinPerm™ Permeability Software controls up to 20 test cells in a system and dramatically simplifies the tasks of setting up and conducting tests.



Pre-programmed test and module formats as well as intuitive Windows-style set-up, control and results screens make it easy to generate and interpret test data. Features include QuickStart for fast test initiation using standard or user-defined test conditions, automatic conversion of test data to Excel format and the ability to print detailed single test results or a summary report of all tests performed on a module.

Ease-of-use, design flexibility, and accurate informative WVTR data define the -

AQUATRAN® Model 1 from MOCON.

