

Models 8700 & 8701

Oxygen Transmission Rate Analyzers

The ultimate solution for fast and reliable oxygen transmission rate analysis of multiple bottles or packages



Model 8700

Ideal for rapid oxygen transmission rate testing of multiple:

- PET bottles • Coated PET bottles
- Coated bottles for beer and wine
- Soft drink bottles • Bottle closures



Model 8701

Ideal for flexible testing of different packaging types:

- Pet food pouches • Cereal packages
- Pharmaceutical packaging • Trays
- Complete packaging • PET bottles
- Fruit juice containers

Features & Benefits

- Measurement of 11 samples simultaneously - individually started, stopped or delayed
- Expandable up to 5 Modules (Total 66 test cells) controlled from a single workstation
- Easy sample connection and rapid measurements make the 8700/8701 the most efficient permeation analyzers available
- Ultra fast testing - Systech Illinois' Turbopurge™ technology allows you to start and advance your tests to the critical data collection mode much faster. Saving out-of-specification production time. Testing can be done in as little as 3 hours
- Set up to eliminate errors and reduce operator training
- Confidence in your permeation measurement - the proven Coulometric sensor provides you with reliable, repeatable, and accurate measurements time and time again
- Simple Windows® based software control - easy to set up with Quick Start stored testing configuration settings and clear concise results presentation
- Low operation costs - no special gases, industrial grade nitrogen is all you need

Conforms to:

ASTM D3958, F1307, F2622, **ISO** 15105-2, **DIN** 53380, **JIS** K7126

Electromagnetic Compatibility Directive 89/336/EEC Low Voltage Directive 73/23/EEC

Ultra fast analysis for QC

Avoid production scrap and expensive rework costs

The 8700 and 8701 Turbopurge works in conjunction with the proprietary coulometric sensor.

Complete test results for barrier coated PET bottles are available in less than 12 hours. Specification tests for QC can be obtained in less than 3 hours.

Multiple test stations

Multi-station plastic bottle molding units require multi-chamber OTR analysis. Each 8700 or 8701 is equipped with 11 test chambers as standard.

For even greater capacity you can add 5 expansion units (66 test chambers total) controlled by a single work station. Using the 8701 each test chamber can be individually enabled / disabled / stopped / started / delayed.

R & D and QC

Whatever your application may be, the 8700 and 8701 have the speed and flexibility to be used as an invaluable QA tool, saving time and money.

These instruments are equally at home within a Research and Development environment, enabling cutting edge barrier technologies to be tested for OTR.

Easy to use

The control software is simple and intuitive. Training requirements are minimal, and QA staff can carry out OTR tests in a matter of minutes. In real time, the Windows® based software will provide you with a complete graphical representation of the measurement so that you can monitor the process and document the results.

Wide measuring range

One analyzer has the ability to evaluate a wide range of barrier alternatives and their corresponding performance.



Test 11 chambers at once

Automatic control

Utilizes software to automatically manipulate mass flow controllers, temperature and all important test parameters while archiving valuable data, settings, and results graphically and digitally.

Easy to use tabs

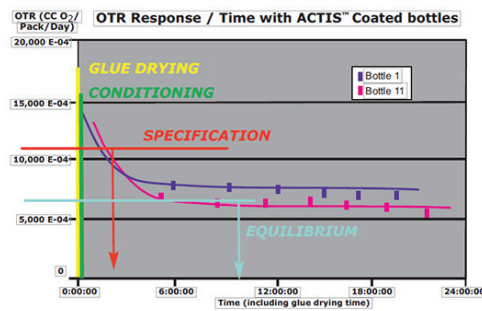
Analyze data over any duration

'At a glance' station status

Simple set up menu

Instant recall of commonly used settings

8700 Oxygen Permeation Analyzer



The 8700, with fixed platens, is used primarily in PET bottle manufacturing, as an invaluable R&D resource for new packaging development to test and validate new packages.

In addition, this analyzer can be used for QC, to confirm the performance standard of the packaging.

8701 Oxygen Permeation Analyzer

The 8701 offers a range of optional adapters to provide versatile package testing. Adapters are available for containers, canisters, pouches, bags, closures and more.

Adapters can also be specially designed for your specific application.

Delay Repeat Test Adapter

Test any package that will take days to equilibrate.

Connect and start test. Withdraw to shelf and reconnect later to verify equilibrium



Complete Package Adapter

Glue to complete package for easy and quick testing



Bottle Adapter

No need to glue bottle to the adapter any more. Just screw in for fast testing

Film Test Adaptor

Test any film sample. May also be used to check the calibration of the instrument



Systech Illinois Models 8700 & 8701 Technical Specifications

OTR Test Range:

Films: 0.04 - 100,000 cc/m²/day
0.0001 - 5,000 cc/100in²/day.
No mask required

Package:

0.00004 - 2,000 cc/pack/day

Test Temperature Range: Ambient

Automatic Temperature Control: Ambient

Foot Print: 760 x 590 x 350 (mm)

30 x 23.5 x 13.75 (inches)

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Controlled RH Testing:

Dry and Unknown Wet RH (assumed saturated or 100% RH)
Dry Only

Expansion: Up to 5 modules
(Total 66 test cells)

Test Sample Size: Films 50cm² - Packages

Calibration: Films or NIST Gas

Power Rating: 100-240 VAC, 50/60 Hz,
150 VA (max)



FM 58377

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