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Oxygen Permeation Analyser



When you need fast and reliable oxygen permeation testing for multiple bottles, packages, or films the Systech Illinois 8700 provides you with the ultimate solution.

- Tests films or packages
- 11 test stations expandable to 66
- Ultra fast high production throughput

Applications

PET bottles

Coated PET bottles

Coated bottles for beer, wine etc.

Pet food pouches

Cereal packages

Pharmaceutical packaging

Fruit juice containers

Soft drinks bottles

Bottle closures

Barrier films



Features & Benefits

- Measurement of 11 samples simultaneously - individually started, stopped or delayed. Easy sample connection and rapid measurements make the 8700 the most efficient bottle/package/films permeation analyser available.
- Ultra fast testing Systech Illinois' Turbopurge[™] technology ensures the fastest possible stabilisation time for the permeation measurement. Preventing out of specification production. Testing can be done in only 3 - 12 hours.
- Low running costs no special gases required, industrial grade nitrogen is all you need.

- 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 QuickStart stored testing configuration settings and clear concise results presentation.
- For medical and pharmaceutical permeation testing, we can now offer software which conforms to 21CFR Part 11

The 8700 can provide you with all your requirements.

Conforms to: **ASTM D-3985 ASTM F-2622** ISO 15105-2 **DIN 53380 JIS K-7126** Electromagnetic Compatibility Directive 89/336/EEC Low Voltage Directive 73/23/EEC remation

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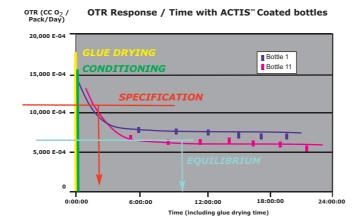
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(Ultra Fast Analysis for QC)

Avoid production scrap and expensive re-work costs

The 8700 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

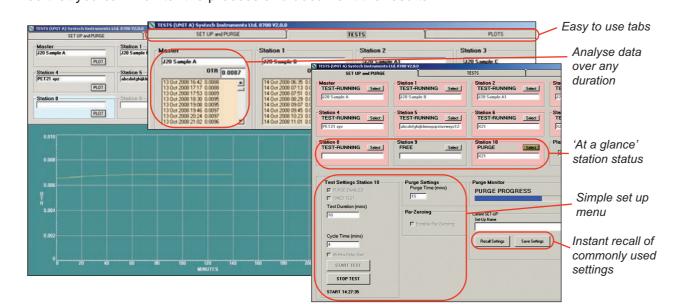
Simultaneous Measurements

Multi-station plastic bottle moulding units require multi-chamber OTR analysis. One 8700 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. Each test chamber can be individually enabled / disabled / stopped / started / delayed.



Easy to Use

The control software is simple and intuitive. Training requirements are minimal, and QA staff can be carrying 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 Measurement Range

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

Automatic Control

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



R & D and QC

tested for OTR.

How it works

gas over time at a known flow.

Built to be versatile

Film Test Adaptor

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

Whatever your application may be, the 8700 has the speed and flexibility to be used as an

Research and Development environment, enabling cutting edge barrier technologies to be

The basic principle of permeation is to measure the amount of a gas that permeates through a

permeant gas flows on one side of the film or package and a carrier gas on the other side of the

film or package. The transmission rate is the amount of permeant that is measured in the carrier

Adaptors

Delay Repeat

Test Adaptor

Test any package

that will take days

Connect and start

test. Withdraw to

reconnect later to

verify equilibrium.

to equilibrate.

shelf and

Versatile package testing by simply switching the 8700 bottle platens with optional alternate

platens to analyse films, containers, canisters, pouches, bags, closures and more.

invaluable QA tool, saving time and money. The instrument is equally at home within a

sample. This is accomplished by sealing the sample to a chamber using a platen. The

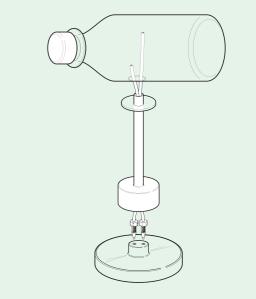


Bottle Adaptor

No need to glue bottle to adaptor anymore. Just screw in for fast testing.

Complete Package Adaptor

Glue to complete package for easy and quick testing.



8000 Series - Oxygen Permeation Analysers

Systech Illinois' range meets the requirement for the testing of any application.



8700

760 x 590 x 350 (mm) 65kg 11 stations for films or packages.



8003

533 x 533 x 305(mm) 28.1kg As 8001, but tests dry only.



8001

533 x 533 x 305(mm) 28.1kg 2 stations for films or packages, precise humidity control, can switch between wet or dry samples within minutes.



8200

533 x 533 x 305(mm) 28.1kg 2 station for films or packages.



8002

533 x 533 x 305(mm) 28.1kg As 8001, but tests only dry or wet (assumed 100% RH).



8501

356 x 356 x 279 (mm) 18.2kg Reduced specification single station for film or package, dry test only.



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