Environm-8700 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.
- The 8700 eliminates errors and reduces 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 QuickStart stored testing configuration settings and clear concise results presentation.
- Low running costs no special gases required, industrial grade nitrogen is all you need.

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

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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

are available in less than 12 hours.

Specification tests for QC can be

Multiple Test Stations

Simultaneous Measurements

Multi-station plastic bottle moulding units

require multi-chamber OTR analysis. One

standard. For even greater capacity you

can add 5 expansion units (66 test

station. Each test chamber can be

8700 is equipped with 11 test chambers as

chambers total) controlled by a single work

individually enabled / disabled / stopped /

obtained in less than 3 hours.

results for barrier coated PET bottles

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R & D and QC

Whatever your application may be, the 8700 has the speed and flexibility to be used as an invaluable QA tool, saving time and money. The instrument is equally at home within a Research and Development environment, enabling cutting edge barrier technologies to be tested for OTR.

How it works

The basic principle of permeation is to measure the amount of a gas that permeates through a sample. This is accomplished by sealing the sample to a chamber using a platen. The 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 gas over time at a known flow.

Built to be versatile

Versatile package testing by simply switching the 8700 bottle platens with optional alternate platens to analyse films, containers, canisters, pouches, bags, closures and more.



Adaptors

Delay Repeat Test Adaptor

Test any package that will take days to equilibrate. Connect and start test. Withdraw to shelf and reconnect later to verify equilibrium.



Easy to Use

started / delayed.

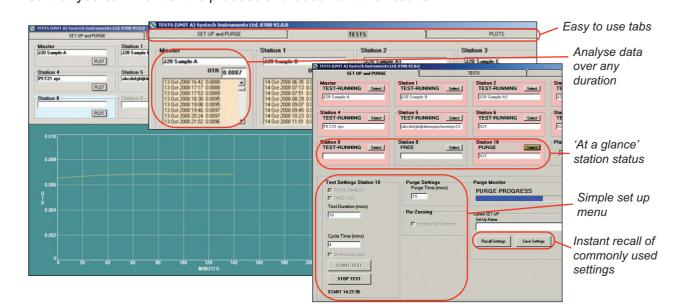
The control software is simple and intuitive. Training requirements are minimal, and QA staff can be carrying out OTR tests in a matter of minutes. In real time, the Windows® based software will provide you with a complete graphical representation of the measurement so that you can monitor the process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

20,000 E-04

15.000 E-04

10.000 E-04

5,000 E-04



Widest Measuring 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.

OTR Response / Time with ACTIS™ Coated bottles

SPECIFICATION



Film Test Adaptor

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

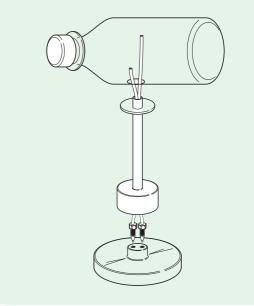


Bottle Adaptor

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.



8001

8001 e-net

8001L

sensor.

8002

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.

As 8001, with new coulometric oxygen sensor and an integrated computer.

As 8001, with new coulometric oxygen

533 x 533 x 305(mm) 28.1kg

533 x 533 x 305(mm) 28.1kg

533 x 533 x 305(mm) 28.1kg



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



8200

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



8501

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



8700

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



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Systech Illinois reserve the right to change specifications without notice. 09/2010

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