

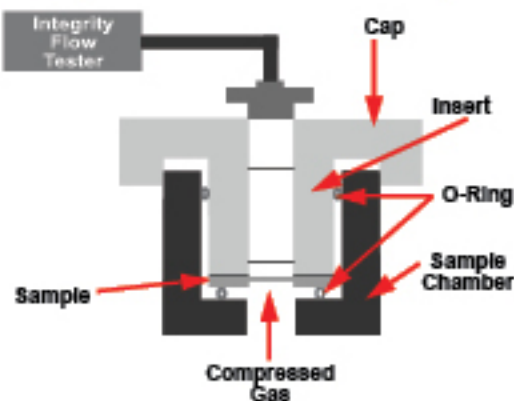
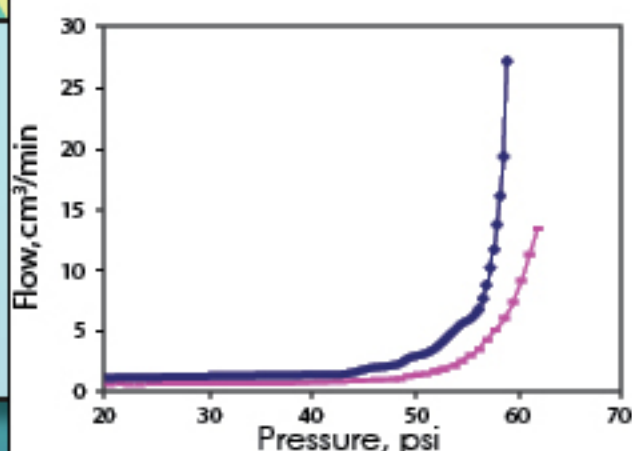
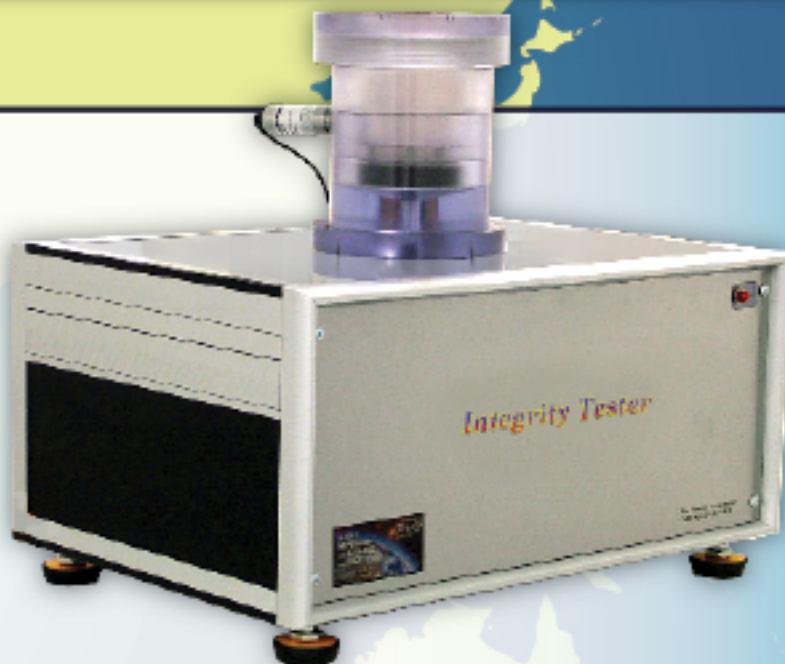
Integrity Tester

Description

The PMI Integrity Analyzer provides fully automated analysis of filter integrity. The integrity test detects small amounts of flow through the sample before the bubble point is reached. The user-friendly Integrity Analyzer features nondestructive testing and can test a wide variety of samples. The integrity test can also measure bubble point.

Principle

A fully wetted sample is placed in the sample chamber and the chamber is sealed. Gas is then allowed to flow into the chamber behind the sample with increasing pressure. A flow meter is located in front of the sample and is used to detect gas flow through the sample prior to any pore being emptied of liquid, thus, the integrity is determined. When the pressure reaches a point that can overcome the capillary action of the liquid within the largest pore, the bubble point has been found. After determination of the bubble point, the pressure is increased and the flow is measured until all pores are empty.



Specifications

Pore Size Range

0.013 - 500 microns

Permeability Range

1×10^{-3} - 50 darcies

Sample Size

1.75" - 2.5" diameter

Pressure Range

0 - 500 psi

Pressurizing Gas

Clean, dry, and compressed air or nonflammable and noncorrosive gas

Pressure Transducer Range

0 - 500 psi

Resolution

1 in 20,000

Accuracy

0.15% of reading

Mass Flow Transducer Range

$10 \text{ cm}^{-3}/\text{min}$ - $500,000 \text{ cm}^{-3}/\text{min}$

Power Requirements

110/120 VAC, 50/60 Hz

(Others available)

Dimensions

30" H x 19" W x 18.5" D

Weight

100 lbs

Industries

- Automotive
- Battery
- Biotechnology

- Ceramic
- Filtration
- Fuel Cells

- Nonwovens
- Paper
- Textiles

- Medical
- Pharmaceutical Products
- Household Products

Other Products

Average Fiber Diameter Analyzer

Bubble Point Tester

Capillary Flow Porometer

Capillary Condensation Flow Porometer

Complete Filter Cartridge Analyzer

Clamp-On Porometer

Compression Porometer

Custom Porometer

Cyclic Compression Porometer

Envelope Surface Area Analyzer

Filtration Media Analyzer

High Flow Porometer

Integrity Analyzer

In-Plane Porometer

Microflow Porometer

Nanopore Flow Porometer

QC Porometer

Diffusion Permeameter

Gas Permeameter

Liquid Permeameter

Vapor Permeameter

Water Vapor Transmission Analyzer

Liquid Extrusion Porosimeter

Mercury/Nonmercury Intrusion Porosimeter

Vacuapore

Water Intrusion Porosimeter (Aquapore)

BET Liquisorb

BET Sorptometer

Gas Pycnometer

Mercury Pycnometer

Also Available:

Testing Services

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Short Courses

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