

VeriPac 410

a PTI technology

Vacuum Decay



Non-destructive seal and leak detection for blister packs, sachets, and pouches with low headspace.

Product Overview

Multi-cavity blister packs and low head space packaging use a variety of test methods to determine package integrity, with most being destructive, subjective, and unreliable.

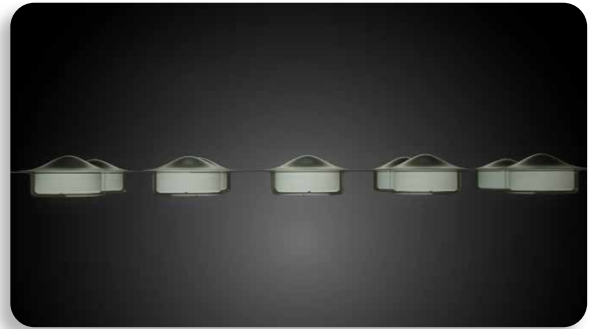
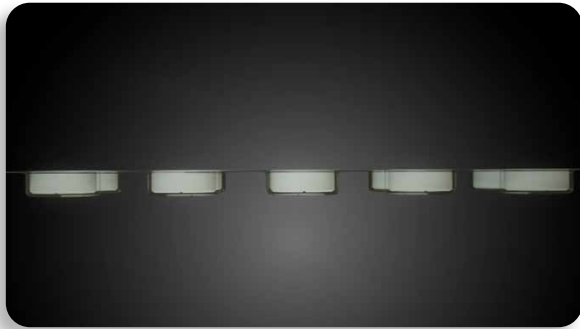
The VeriPac 410 utilizes a combination of **vacuum decay technology and differential force measurement** to identify defective packages. Depending on the package specifications, the 410 provides the capability to test **multiple packages in a single test cycle**. The VeriPac 410 also identifies which package or blister cavity is defective. Test results are quantitative and provide operators with a definitive *PASS/FAIL* result.

Package quality assurance is achieved by deploying **accurate, reliable, non-destructive** inspection methods that remove subjectivity from the testing process. The VeriPac 410 allows tested product to be returned to the production line and **eliminates the cost and waste** associated with destructive leak test methods. The 410 addresses all issues associated with low volume flexible and semi-flexible package leak testing. The ROI for the VeriPac 410 makes this a powerful solution for the pharmaceutical industry.

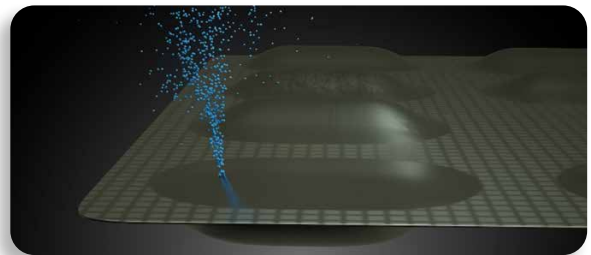
- Non-destructive, non-invasive, no sample preparation
- Non-subjective, accurate, and repeatable results
- Test multiple packages in a single test cycle
- Identifies which package is defective
- Simplifies the inspection and validation process
- Supports sustainable packaging initiatives
- ASTM test method and FDA standard
- Cost effective with rapid return on investment

Technology

The VeriPac 410 tester is connected to a specially designed drawer-style test chamber. A custom package insert that conforms to the package shape increases test sensitivity. Vacuum levels are monitored during the test cycle to evaluate the package using the **ASTM F2338 Vacuum Decay Leak Test Method**. Decay of the vacuum level indicates that air is leaking from the package into the test chamber.



Once the vacuum testing phase is complete, a **pressure plate** maps the surface pressure of the flexible package lidding. The pressure plate system recognizes the pressure pattern exerted by the package when it is not defective, and the lack of pressure exerted on the pressure plate by a defect, allowing for both **defect detection and location** of the package or cavity.



Specifications

APPLICATION	<ul style="list-style-type: none"> ◦ Non-destructive leak detection of blister packs, contact lenses, sachets, and pouches with low headspace ◦ Defect profile typically > 15 microns
TECHNOLOGY	Vacuum decay and differential force measurement
TEST METHOD*	<ul style="list-style-type: none"> ◦ Absolute vacuum transducer ◦ Pressure plate
PACKAGE TYPE	<ul style="list-style-type: none"> ◦ Blister packs ◦ Sachets ◦ Pouches with low headspace
PACKAGE MATERIAL	Non-porous materials: Foil, Plastic, Poly, Film, Aluminum, Paper
OFFLINE OR ONLINE	Offline lab instrument
TEST PARAMETER STORAGE	Up to 20 packages
TEST RESULT DATA	PASS/FAIL result in mBar units
TEST SENSITIVITY**	2ccm (approx. 15 micron hole size)
SECURITY PASSWORD	Yes
REMOTE INTERNET ACCESS	Yes
DATA COLLECTION	View on touch screen and electronic data log collection
TEST CHAMBER	Test drawer configuration
ASTM TEST METHOD	ASTM F2338-09**
TEST INSTRUMENT ENCLOSURE	Stainless Steel
TEST CHAMBER INNER DIMENSIONS	Maximum test area = 240 mm x 240 mm
TEST DIMENSIONS/WEIGHT	14.5" W x 22" D x 12" H 35 lbs.
TEST DRAWER FOOTPRINT	17"W x 21"D
POWER	100-240 VAC 50/60 cycles
AIR	90 psi
OPTIONS	Validation Qualification Package (IQ/OQ/PQ) / Microcalibrator Flowmeter
CERTIFICATIONS	CE

* U.S. Patent Pending

**Test results may vary according to application and package specifications.



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