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OptiPac
BLISTER PACKAGE LEAK DETECTION

Product Overview

The OptiPac Leak Detection System is a **deterministic, non-destructive** technology designed specifically for multi-cavity blister packs. OptiPac utilizes volumetric imaging under vacuum with topographic imaging to detect the presence and location of leaks.

The OptiPac is engineered with One-Touch Technology to achieve a rapid test cycle requiring no changeover or sample preparation, and no tools for different blister formats. It is specially designed for practical operation, sensitivity and reliability. OptiPac technology is unique in that it can provide rapid detection of **sub-5-micron defects** depending on blister cavity volume.

✓ **Auto Configuration**
easy recipe setup and validation of new blister formats

✓ **Advanced Batch Reporting**
with audit trail including image of blister pack and defect results

✓ **Auto Orientation**
of blister packs (test blister packs in any position – no specific orientation)

✓ **Auto Calibration**
is an integrated one-touch function

Technology

The operator simply selects a recipe for the blister package using the HMI Touch Screen and places the blister pack on the test plate in **any orientation**. After pressing the *START* button, vacuum is pulled to a defined level.

Within seconds, the operator sees a definitive pass/fail result, and a visual identification of blister cavity defects.
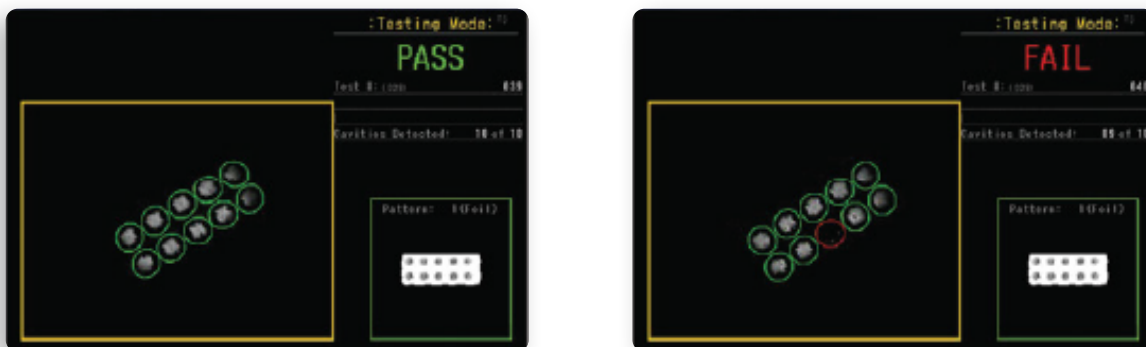
The blisters **expand under vacuum**, driving air out of the blister through any leaks present. If there is a leak in the blister, the **air escapes into the chamber**, leaving a collapsed blister package.

During the **dynamic vacuum test sequence**, a volumetric image and measurement reading is taken that determines which blister cavities are defective. A definitive *PASS/FAIL* result is displayed as well as the quantitative measurement for each package tested.

- Non-destructive technology

- Pass/Fail results backed by quantitative test data

- Completely tool-less

- No changeover to test different blister formats

- Identifies defective cavity

- Pre-loaded recipe library with easy recipe setup and validation of new blister formats

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Specifications

APPLICATION	Non-destructive leak detection of blister packs *(ranging from 1 cavity up to multi-cavity blister packs)*
PACKAGE TYPE/ MATERIALS	◦ Blister Packs/Foil, Paper, Aluminum ◦ Cold form and thermo formed blister packs
TECHNOLOGY	Volumetric imaging under vacuum
OPERATOR INTERFACE	Integrated Windows 10 Computer - 15.6" Wide Touch Screen HMI ◦ *Option to connect external keyboard and mouse*
TEST RESULT DATA	PASS/FAIL result on touch screen and measurement reading
DATA COLLECTION	◦ View on HMI screen ◦ PTI-ETHOS CFR 21 Part 11 Software ◦ *Windows 10 Active Directory Management or local using SQL Server* ◦ USB stick for easy data transfer
TEST SENSITIVITY*	<5 Microns
TEST CHAMBER	Integrated test chamber
TEST INSTRUMENT ENCLOSURE	Stainless steel compact frame houses PLC controller, operator touch screen display and internal vacuum generator
DIMENSIONS/WEIGHT	17.3"W x 19"D x 53.2"H | 80 lbs.
POWER	100-240 VAC | 50/60 Hz | 2.0A
AIR SUPPLY	90 psi
OPTIONS	Validation Qualification Package (IQ/OQ)

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