

Blister Package Inspection



VeriPac UBV Universal Blister Verification

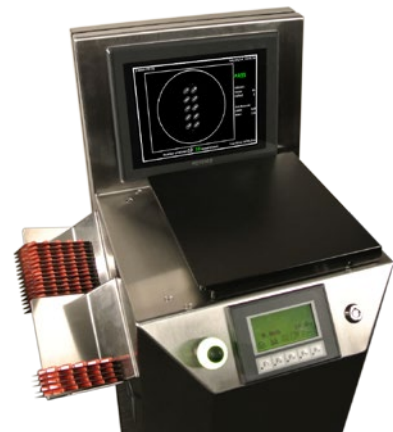
The VeriPac UBV Leak Detection System is a deterministic non-destructive technology designed specifically for multi-cavity blister packs. The VeriPac UBV utilizes volumetric imaging under vacuum to detect the presence and location of leaks.

It's a rapid test requiring no changeover or sample preparation. Operators simply input the number of blister cavities, place the blister pack on the inspection plate and press the START button. Within seconds, the operator sees a definitive pass/fail result, along with a volumetric measurement reading. The location of the defective cavity is presented to the operator with an image of the tested package. The small footprint kiosk design is ideal for positioning next to any production line. The clean and simple test approach makes it clean room compatible. The intuitive and simple method make it a practical solution giving rapid feedback to production line operators.

The UBV technology is unique in that it can provide rapid detection of defects as small as 10 microns with a fast test time, averaging 10-30 seconds depending on blister cavity volume. Test system requires no tools or test parameter changes for different blister formats. This technology is particularly advantageous for small to tiny blister cavities that are notoriously difficult to detect with a standard vacuum system due to the very low headspace.

BENEFITS

- Non-destructive technology
- Accurate and repeatable results
- Pass/fail results backed by quantitative test data
- Completely tool-less
- No changeover to test different blister formats
- Identifies which cavity is defective
- Eliminates destructive, subjective testing methods



Blister Package Inspection Technology

VeriPac UBV



The VeriPac UBV is a system designed for blister packs with a minimum of 4 blister cavities. It uses the volumetric imaging of the blisters under vacuum to detect leaks. The system has an HMI which is used to input the number of blisters, as well as a monitor that, along with the HMI, displays the test results.

The sample is placed inside the hinged test chamber. After pressing the start button, vacuum is pulled to a defined vacuum. 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 measurement reading is taken which determines which blister cavities are defective. A definitive pass/fail result is displayed as well as the quantitative measurement associated with each package test.

Inspection Criteria

- Leak detection and seal integrity testing of entire package
- Test sensitivity down to 10 microns



SPECIFICATIONS

VeriPac UBV



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| Application | Non-destructive leak detection of blister packs with a minimum number of 4 blisters per pack |
| Package Type / Materials | Blister packs/foil, paper, aluminum |
| Technology | Volumetric Imaging under vacuum |
| Offline or Online | Offline inspection station |
| Operator Interface | -8.4 inch LCD color display monitor showing test result images and data -3 inch operator panel(HMI) |
| Test Result Data | Pass/Fail result and volumetric measurement reading |
| Data Collection | View on monitor and data collection on the SD card |
| Test Sensitivity | 10 microns |
| Test Chamber | Hinged Chamber |
| Test Instrument Enclosure | Stainless Steel |
| Test Chamber Inner Dimensions | Maximum test area 155mm W + 115 mm D |
| Maximum Package Test Dimensions | Diameter 140mm x 80mm |
| Test Enclosure Dimensions | 14.2" W + 12" D + 48" H |
| Power | 100-240 ADC, 50/60 Hz, 2.9A |
| Supply Air | 90 psi |
| Options | Validation Qualification Package (IQ/OQ/PQ) |

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