LEAK TESTING

PakScan

PakScan is a non-destructive multiproduct leak test machine for pouches, sachets, small medical devices and other flexible packs (non-porous materials) which contain dry powder or a solid component.

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PakScan

PakScan is a non-destructive, multiproduct leak detection machine for pouches, sachets and flexible packaging.

Using force decay technology, PakScan offers a clean and dry leak detection solution for modern manufacturers and packaging companies that pack dry product in pouches, sachets, MAP and other non-porous flexible packaging including PVC, PVDC, Alu.Alu and Aclar.

The system can detect leaks as small as 10µm* in up to 4 packs simultaneously and provides an objective pass/fail result. Data can be stored and exported for audit purposes. The system is capable of handling packages up to 275mm x 90mm x 45mm and can be customised to accommodate larger packs.

Machine Operation

Sample packs are loaded into a custom designed product nest and the test chamber lid is closed. There are then 4 key test phases:

1. Evacuation Phase:
A pre-determined level of vacuum is applied to generate an expansive force which is monitored throughout the test cycle.

2. Stabilisation Phase:
Following evacuation of the vacuum, a stabilisation phase allows the conditions to normalise.

3. Decay Test Phase:
The decay test phase measures any reduction in head space pressure. If the expansive force decays by more than a set amount the pack will be classed as a failure.

4. Gross Hole Identification Phase:
At the end of the decay phase, if the reactive force is less than the pre-determined level in the test method, a pack will be classed as a gross leak failure.

*Pack and material dependant

Technical Specification

Pack Type
Sachets, pouches, bags and MAP (flexible, non-porous materials)

Pack Size
275mm x 90mm x 45mm per pack. (The system can be customised for larger packs.)

Test Cycle Time
From 20 secs.

Measurement Ranges
Down to hole size of 10 micron

Operation
Semi–automatic

Machine Construction
All product contact areas are constructed from stainless steel (grade 316) and are cGMP compliant.

Utilities
Electrical: 110/230V
Single Phase AC 50/60Hz
Consumption, Air: 6 Bar

Configuration
2x USB Port, 1x Ethernet Port

User Interface
VGA LCD colour wide angle touch screen (12.1 inch) display with virtual instruments (800x 600 resolution)

Tooling Changeover
Approx. 3 minutes

Audit Compliance
System can be run in compliance with 21 CFR Part 11

Machine Dimensions
740mm (L) x 640mm (W) x 1655mm (H)

Weight
Machine: 150kg
Shipping Weight: 250kg

Warranty
Supplied with a 12-month warranty. (Service Level Agreements and/or extended warranties are available for additional support).

Key Features

- Non-destructive seal integrity and leak detection device that uses force decay technology to detect weak seals and holes down to 10µm*
- Can test up to 4 packs simultaneously as standard (5 & 6 pack options available)
- Capable of handling dry, non-porous packages up to 275mm x 90mm x 45mm
- User defined password protection ensuring multiple operator use
- Easily validated system
- Repeatable test with objective pass/fail results
- Test results can be printed, exported via USB (2x) or integrated into local quality control system via Ethernet cable
- Network connectivity to a central server

* Pack and material dependent

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