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## LEAK TESTING

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## PakScan

PakScan is a nondestructive 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.

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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 10 packs simultaneously (depending on pack size) and provides an objective pass/fail result. Data can be stored and exported for audit purposes. The system offers a range of standard configurations to include 3, 4, 5, 6, 8 or 10 packs and can be customised to accommodate larger packs.

#### Pack Dimensions

Configuration	Length (mm)	Width (mm)	Thickness (mm)
3 Packs	270	155	45
4 Packs	270	95	45
5 Packs	270	95	45
6 Packs	130	155	45
8 Packs	130	95	45
10 Packs	130	95	45

#### 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:

**User Interface** 

resolution)

12.1 Inch HDMI resistive

**Tooling Changeover** Approx. 1 minute

Audit Compliance

System can be run in

compliance with 21 CFR Part 11

touchscreen (1280 x 800

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)

#### **Test Cycle Time** From 20 secs.

**Measurement Ranges** Down to hole size of 10 micron

### Operation

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### Semi-automatic

**Machine Construction** Work station: 304 stainless steel

Internals: anodised aluminium Product nest: nylon / vyon F All materials are FDA approved

#### Utilities

Electrical: 110/230V Single Phase AC 50/60Hz Air Supply: Min. 20L/min at 0.6Mpa (ISO8573-1:2010 Class 2)

Configuration 2x USB Port, 1x Ethernet Port

#### **Machine Dimensions**

670mm (L) x 760mm (W) x 882mm (H) - excluding screen 670mm (L) x 1042mm (W) x 1195 (H) - including screen

#### Weight Machine: 200kg

Shipping Weight: 260kg

#### 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 10um\*

Can test up to 10 packs simultaneously, depending on pack size. Standard configurations include 3, 4, 5, 6, 8 and 10 packs.

Capable of handling dry, non-porous packages up to 270mm x 155mm x 45mm. System can be customised for larger packs.

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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