

Datasheet



Stationary Leak Tester

Oxipack's standard solution for testing a wide range of flexible packaging, the SLT combines efficiency and accuracy in leak detection for maintaining product quality.



Who Is Oxipack

We help manufacturers ensure product quality with fast, non-destructive leak detection. Our advanced leak detection systems provide precise and reliable testing for food, pharmaceuticals, cosmetics, and many other applications. Using our vacuum decay method, we verify packaging integrity and help you reduce waste, prevent unnecessary product loss, reduce costs, and improve the efficiency of your quality control process.

Why Leak Detection Matters



Why it matters

A single undetected leak can spoil a product, compromising its safety, and put your brand's reputation on the line.



What it looks like

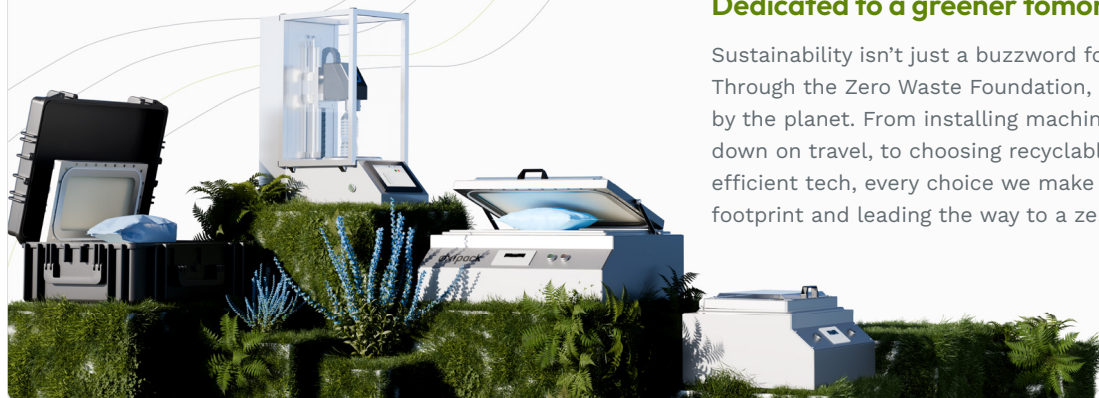
Imagine you buy a yogurt cup with a crack in the seal too small to see. Invisible as it is to the eye, it's enough to let bacteria in, ruining the product before it's ever even opened.

ZERO WASTE
Foundation by Oxipack

The Zero Waste Foundation

Dedicated to a greener tomorrow

Sustainability isn't just a buzzword for us; it's how we operate. Through the Zero Waste Foundation, we're all about doing right by the planet. From installing machines remotely to cutting down on travel, to choosing recyclable materials and energy-efficient tech, every choice we make is about reducing our footprint and leading the way to a zero-waste future.



Stationary Leak Tester

SLT

Oxipack's standard solution for testing a wide range of flexible packaging, the SLT combines efficiency and accuracy in leak detection for maintaining product quality.

Features:

- Non-destructive vacuum decay method (ASTM F2338).
- Customizable for various packaging types (rigid and flexible).
- Can test multiple packs simultaneously.
- Operator-independent results.
- Integrated vacuum pump and control systems.



Benefits

Precision

High precision in detecting micro leaks.

Adaptable

Adaptable for different sizes and shapes.

Efficient

Fast and efficient, suitable for high-volume testing.

Reliable

Consistent and reliable results.

User-friendly

Easy to operate with immediate feedback.

Technical Specifications:

Dimensions and Weight: 630 x 705 x 333 mm (L x W x H), 40 KG

Materials: Stainless Steel, Anodized Aluminium, Polycarbonate, Rubber

Power Supply: 100 - 230V 50/60HZ

Air Supply: > 5.5 - < 8 bar/ 8mm connection

Air Consumption: 150 NL/min

Compliance and IP Rating: CE IP20

Leak Detection Method: ASTM F2338

Minimum Leakage: > 0.9 cm³/min

Maximum Testing Capacity: 2P/M

Connections: USB/Ethernet export, 24VDC logic (free programmable)

Packaging Type and Size: MAP up to 350 x 500 x 116 mm (L x W x H)

Options: IOT Data, Barcode Scanner, Printer, Line Numbers, OPC UA

Features: Non-destructive, Accurate, Easy to Operate, Direct Result, Robust Design



How Vacuum Decay Leak Testing Works

The Principle

The football stadium metaphor

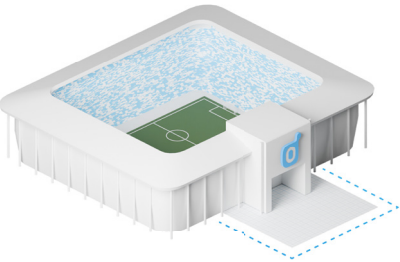
Oxipack applies the ASTM F2338 vacuum decay method, detecting micro-leaks other methods miss by measuring within the smallest space possible.

The stadium = your sample pack

The people = air inside the pack

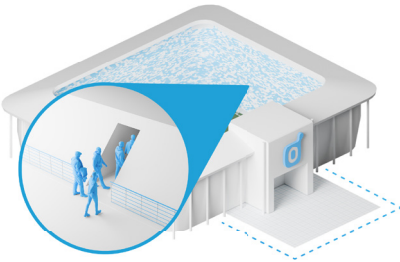
The square = our leak detection equipment

1



Let's say we have a stadium, filled with 10,000 people, and the stadium is placed on a small square.

2



If we look from inside the stadium it's hard to see when five people leave.

3



However, if we stand on the square outside of the stadium, it's easier to see those five people coming out.

How It Works

Six steps to a reliable result

Multiple package sizes and types can be tested simultaneously, with no compromise in accuracy or performance.

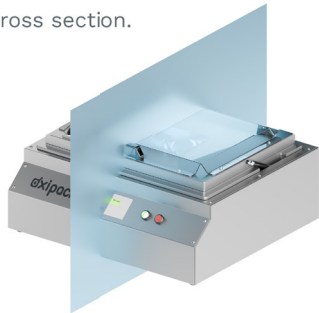
1 Place the package inside the chamber.



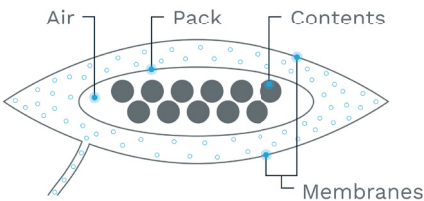
2 Close the lid and press start.



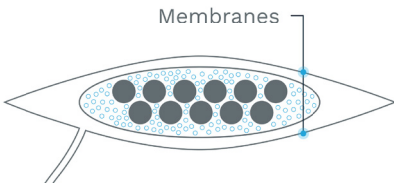
3 Cross section.



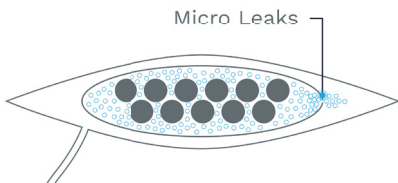
4 A vacuum will be created by extracting all air in between the membranes.



5 The membranes hug the package, protecting it from bursting and creating a very small measuring space.



6 In this small measuring space, we are able to detect micro leaks, as air from the pack will flow out.



Why Oxipack

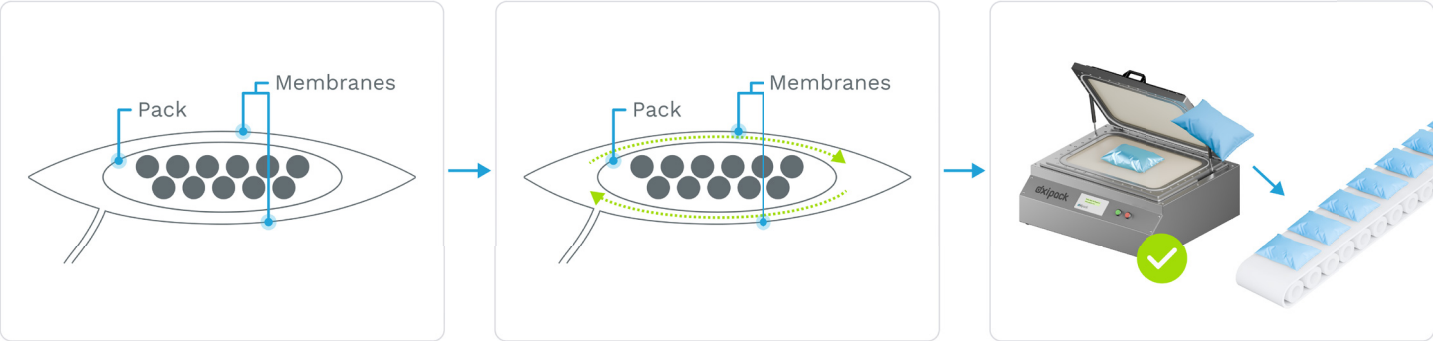
Bubble Leak Test vs Oxipack

Bubble leak testing has been a common method in the industry, but while it is a inexpensive machine, it carries fundamental limitations that affect reliability and throughput.

Destructive testing Bubble Leak Test



Non-destructive testing Oxipack



Feature	Bubble Leak Test	Oxipack
Sensitivity	✗ Large holes only	✓ Detects micro-leaks
Non-destructive	✗ Pack must be discarded	✓ Pack returns to the line
Seal stress	✗ Water bath stresses seals	✓ Equilibrium — no pressure
Bio-based packaging	✗ Paper and corn starch damaged	✓ Safe for all materials
Leak masking	✗ Water can seal micro-leaks	✓ Textured membrane keeps leaks open
Clean testing	✗ Water and mess around the testing area	✓ Clean vacuum testing — no mess

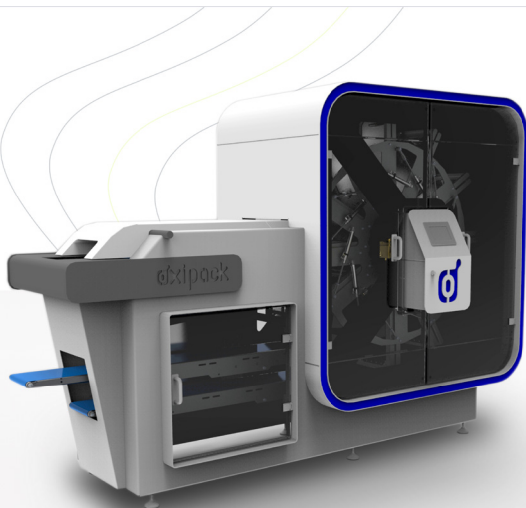
Solutions & Integration

Stand-Alone Machines

Oxipack's stand-alone leak detection machines use vacuum decay technology to deliver fast, non-destructive testing for food, pharmaceutical, and other packaging applications.

They're easy to operate with minimal training, and give instant deterministic pass/fail results making it ideal for spot checks and batch testing.

By replacing destructive methods like bubble leak testing or blue dye, Oxipack helps maintain product quality across flexible and rigid packaging while reducing your packaging waste and costs.



In-Line Machines

Fully automated, non-destructive leak testing for high-speed production lines. Using vacuum decay technology, our in-line systems inspect every package for leaks in real time, ensuring 100% quality control without slowing down production.

Custom Solutions & Centre of Expertise

Not every packaging challenge fits a standard machine. Oxipack's Centre of Expertise consults on non-standard leak detection challenges and develops tailored solutions or parts where none exist yet. From odd shapes to novel materials, a lot is possible.



Global Reach, Shipping & Maintenance

Oxipack machines are shipped, installed, and supported with maintenance worldwide, either directly by Oxipack or through regional partners. Spare parts are stocked and ready wherever you're located, and our Oxipack Care+ package gives you self-maintenance tools and optimised remote support. Less downtime, more control.



Prototypes

600+

Custom Made Solutions

150+

Customers Worldwide

1000+

Frequently Asked Questions

Can Oxipack leak testers integrate with our production or quality systems?

Yes, depending on the machine and configuration, Oxipack solutions can support USB/Ethernet data export, programmable 24VDC signals, IoT connectivity, and OPC UA. This allows our systems to connect with many production and quality-control environments and software. Integration requirements vary by customer, but we're always happy to discuss custom options and possibilities.

What happens if I'm interested in an Oxipack solution?

It starts with a conversation about your packaging and leak detection requirements. Where relevant, we can test your packaging samples to help determine the right setup. From there, we provide a tailored proposal and guide you through ordering, delivery, installation and training.

Can Oxipack's leak detectors be used for different packaging sizes?

Yes, Oxipack is compatible with a range of sizes and shapes, from flexible pouches to rigid containers, our SLT can even test multiple packages simultaneously. We'll help you find the right fit for your situation.

Why is recorded leak test data useful?

Oxipack solutions record every test result, giving you objective data you can review and export. This makes it easier to track packaging performance and spot patterns. Traditional testing relies on visual inspection and manual recordkeeping; Oxipack captures this data automatically.

Is Oxipack's leak testing system more cost-effective than traditional methods?

Yes, Oxipack is cost-effective in the long-term, due to reducing product waste, increasing testing speed, and lowering maintenance needs compared to traditional methods. Most customers see a nice return on investment.



Trusted By Production & Quality Teams

“

Oxipack is one of the most important tools to guide our production and follow continuous improvement.



Ton Tanke

Senior Manager Performance
Improvement Packaging

“

Oxipack delivers an accurate non destructive leak tester which optimised our quality and reduced the waste.



Ron van Hilst

Global Packaging
Technology Lead



See Oxipack in Action

Want to learn more about how our leak detection solutions could fit your packaging and production process?

Book a call with our team and we'll walk you through our technology, discuss your application and explore the next steps together.

Prefer to see it in person? Meet us at one of the tradeshows we're exhibiting at and experience our leak detection technology live.

We'd love to meet you.

Contact Us



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