

# Leak Test Instruments

## Mass Extraction: Packaging Solutions for Container Closure Integrity

### Instrument Applications

Non-destructive AIR Mass Extraction Container Closure Integrity Testing (CCIT) for:

- Pharmaceutical sterile products (vials, pre-filled syringes and more)
- Pharmaceutical non-sterile products (bottles, pouches, blister cards and more)
- Medical devices for porous and non-porous packages
- Beverage packaging (bottles, cans, cartons etc.)
- Food – flexible and rigid packages

Fully automatic leak testing under vacuum

Accommodates detection of very large defect (to detect for open package)

Large defect and fine defect test features

Leak tightness for sterile products from 1 µm defect size

Or Leak Tightness from 4-5 µm for non-sterile products

Cleanroom or industrial applications



Mass Extraction has been recognized worldwide as one of the most sensitive, robust and reliable testing technologies. Utilizing our Mass Extraction Technology, this unit is specialized for nondestructive container closure integrity testing to help you comply with US FDA requirements for sterile products.

### Features

Includes all ME2, ME3, and VE2 basic features

Automated vacuum test circuit, uniquely designed for ultra-tight leak specification

Proprietary design for very large leak detection, for headspace of 0.4 cc and larger

Stainless steel chamber optimized for package type, protects package from over-expansion.

Ergonomic design, manual or fully automated part loading/unloading

Includes stainless steel vacuum chambers and test cart

Pass/Fail with automated test data acquisition

Micro-Flow sensor—IGLS or IMFS

Optional—*large leak strain measurement* for flexible pouches. Detects large defects and part presence.

## Container Closure Integrity Solutions

### Applicable Micro-Flow Sensors

Vacuum sensor: IL2-M, calibrated from 2 psia to barometric (slip and viscous flow regimes)

Hard vacuum sensor: ME2, IMFS calibrated from 0.01 to 0.2 psia (molecular and transitional flow regimes)

Large leak strain measurement for flexible pouches

*See options chart for available options*



- ◆ Package R&D
- ◆ Package Stability
- ◆ Quality Lab
- ◆ Robotic Control
- ◆ 100% In-line CCI

Medical device package leak testing

- Pouches
- Tyvek® lidded trays
- Non-porous packages
- Foil pouches

Pharmaceutical container closure integrity system– sterility property physical testing

- Parenteral vials
- Pre-filled syringes
- Filled IV bags
- Autoinjectors
- Single use processing bags

CCIT for moisture/oxygen ingress & general protection

- Pouches
- Drug bottles
- Blister cards
- Food and beverage containers



The COMPLETE Solution For Your Most Challenging Automatic Leak Flow Testing

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