

Precise leak testing of mass produced opto-electronic devices with

OptoLeakTM 4000

The OptoLeak 4000 helium leak detection system is the first mass spectrometer leak testing system to offer magazine-to-magazine testing of hermetically sealed devices in standard Auer® boat carriers. Data acquisition and control is provided by bar code scanning, which automatically tracks the devices and their associated load/unload magazines.

Major components include

Leak Test Station

- VIC standard model MS-40 Helium Leak Detector
- 16 CFM chamber roughing pump
- Vacuum Test Chamber
- Calibrated chamber reference leak
- Automatic reject device sorter
- Integrated automatic reject chute/bin

SMEMA-compatible magazine/boat handling mechanisms include

- Auer Boat Line Loader permits the simultaneous loading of up to six magazines, while automatically performing bar code scanning of magazines and transfer of device boats
- Buffer/Inspection Conveyor automatically transports device boats from load station to leak test chamber; features nitrogen device blow-off curtain, bar code scanning of the devices, and an automatic boat pusher
- Automatic Auer boat unloading, magazine bar code scanning, and device boat unloading

Programmable Controls Package

- Industry standard programmable logic controller
- Computer controlled operator interface features LabVIEW® Virtual Instrument Software Package
- Automatic power-up sequence
- Flat panel display

Vacuum Instrument Corporation

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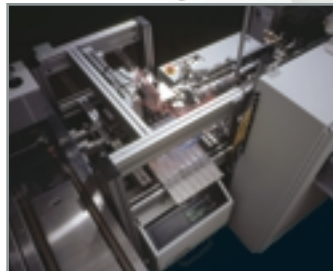
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Sales/Service Offices

California, Georgia, Indiana, Michigan, New York, Ohio, Texas
Mexico, Canada, United Kingdom, France, Germany, China, Japan

Exclusive factory-trained Sales & Service Representatives Worldwide



OptoLeak 4000 Leak Detection System

Fully automated leak detection with helium mass spectrometry

- Automatic handling of devices in standard Auer magazine/boat carriers
- Rapid-fast go/no-go leak testing to MIL-STDs
- Custom engineered fixtures for your specific applications
- Repeatable, automatic non-destructive test results
- Automatic tuning and calibration
- Automatic detection of process faults
- Automatic in/out bar code scanning
- Sensitivity to 10^{-10} Std. cc/sec
- User friendly operator interface screens
- SPC data collection of device specific leak rate and test parameters



VIC Leak Detection

Industrial Leak Detection
Air Leak Testing
Vacuum Metrology

Advanced
technology
means

- greater sensitivity in helium mass spectrometry
- ultra-sensitive atmospheric testing
- patented mass flow techniques

Greater
experience
means

- less costly turnkey solutions
- more efficient production lines
- more satisfied customers



Vacuum Instrument Corporation

Vacuum Instrument Corporation is the world's largest company devoted solely to research and design, manufacture, distribution, training, and service of leak detectors and complete turnkey leak detector solutions. With more than 50 years of experience, VIC offers the broadest applications knowledge and guidance along with the fastest, simplest, and most sensitive leak detectors in the industry. Over one billion products have been tested with portable vacuum-type helium sniffers, general purpose helium leak detectors, mass flow and pressure decay test systems, and complete turnkey leak detection solutions from Vacuum Instrument Corporation. VIC's extensive experience translates to •helium leak sensitivity to 4×10^{-12} atm cc/sec •enhanced efficiency to your production line •specialized mass flow techniques •response times as low as 0.5 seconds •consistent quality control •continuous operator feedback •faster and easier operation •more advanced technology and features •simpler maintenance •optimum solutions for every application.

Laser/opto-electronic applications

VIC leak detectors are ideal for testing hermeticity in TO-n can devices such as pyroelectric detectors, flash lamps, and electro-optical caps, CMOS imaging sensors, digital mirror devices, optical amplifiers, laser diodes, opto-connectors, opto-couplers and photomultipliers as well as many other hermetic devices like semiconductors.

More accessible sales, training, and service

Vacuum Instrument Corporation is rapidly expanding its operations throughout the world. Factory-direct sales or service centers are now located in Canada, China, France, Germany, Japan, Mexico and the United Kingdom as well as California, Georgia, Indiana, Michigan, New York, Ohio, and Texas, with many more to come.

Need help with your applications?

VIC's staff of engineers, system design personnel and applications specialists constitute the most experienced body of leak-detection experts in the world. The Industrial Leak Detection Division offers custom design advanced leak detection solutions that are flexible, reliable and cost effective. Air Leak Testing offers high speed leak and flow restriction testing using mass flow, pressure decay, differential pressure and indirect methods. VIC's Vacuum Metrology Division offers precision portable and console leak detectors with higher sensitivity, faster cycle times and ease-of-use. All three divisions combine their expertise to provide particularly cost-effective turnkey solutions.

Contact Vacuum Instrument Corporation or your local VIC representative for applications assistance, or a complete turnkey solution.

VIC Leak Detection

Industrial Leak Detection

Air Leak Testing

Vacuum Metrology

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