Are efficiency and reliability goals of your manufacturing operations?
Vacuum Instrument Corporation (VIC) is the world’s largest company devoted solely to the research, design, manufacture, distribution, and service of leak detectors and complete leak detection solutions. VIC’s staff of engineers, system design personnel and applications specialists constitute the most experienced body of leak detection experts in the world.

VIC Leak Detection therefore offers an unparalleled breadth of applications knowledge and gas handling experience 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 systems, and complete turnkey leak detection solutions from three divisions that comprise VIC Leak Detection.

The Industrial Leak Detection Division offers advanced custom design leak detection solutions that are flexible, reliable, and cost-effective. The Air Leak Testing Division offers high speed leak and flow restriction testing using mass flow, pressure decay, and differential pressure methods. VIC’s Advanced Leak 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 extraordinarily cost-effective turnkey solutions that improve customer manufacturing yields, productivity, and product quality.
A whole world of leak test solutions

The highest resolution mass spectrometers are built by VIC Leak Detection

Vacuum Instrument Corporation makes turnkey leak detection systems as well as the leak detection instrument on which those systems are based

VIC Milestones
- First commercial leak detector
- First portable helium leak detector
- First direct reading leak detector
- First industrial leak detector
- First in setting leak test standards traceable to NBS
- Thermal Mass Flowmeter patented for air and other gases
- First fully automatic industrial leak detector
- First leak detector with auto-tuning, auto-ranging, auto-scaling
- First gross-air leak detector
Innovation is the heart of technological leadership. 
VIC Leak Detection engineers design mass spectrometers. They build gas handling systems. They design and build complete state-of-the-art leak detection systems that are truly cost-effective.
VIC’s Advanced Leak Metrology and Industrial Leak Detection divisions combine expertise to create the first fully automated leak testing system for laser diodes...

A manufacturer of hermetically sealed tunable laser diode modules purchased the MS-50 Leak Detector from VIC’s Advanced Leak Metrology (ALM) division, based on its established reliability, performance specifications, and full-screen interactive CRT to help the operator identify failures in the prototype and pilot production processes.

Problem—Production goals quickly grew to 1,000 lasers per week, projected to reach one million per year. A fully automated system with no operator intervention would be required to meet this production goal.

Solution—VIC’s Industrial Leak Detection (ILD) division designed and built a turnkey leak test system that provided the...
most efficient solution: The new OptoLeak 4000 is the first fully automatic leak detection system to offer magazine-to-magazine testing of devices in standard Auer® boat carriers. The OptoLeak 4000 employs the MS-40 leak detector for accurate testing, and bar code scanning for complete data acquisition.

**Government imposes stringent new standards for fuel handling systems**

VIC’s Industrial Leak Detection and Air Leak Testing divisions team up to meet rising regulatory standards...

A manufacturer of automotive fuel handling systems had been using standard products from VIC’s Air Leak Testing (ALT) division for years.

Problem—To satisfy stringent new regulations, a more sensitive leak detection technology must be deployed, learned, and integrated into the manufacturing process—quickly.

Solution—VIC’s ALT division provided the new leak detector technology from ILD’s existing product line of helium leak detectors. Compliance to new regulations was achieved quickly because VIC’s ALT division was already familiar with both the customer’s needs and the technology available from its colleagues in ILD.

Manufacturing downtime was therefore minimized, and VIC’s customer could continue to do business with the same reliable vendor with whom they have been working for years.

**Air comes to the rescue when hoses pose a problem for helium**

VIC’s Air Leak Testing division creates a system to test the hoses that connect helium tested A/C components

A manufacturer of air conditioning systems asked the ILD division to build an efficient system to leak test condensers, evaporators, and compressors in which these components are first charged with helium, then tested in a vacuum chamber.

Problem—These components are interconnected with a wide variety of hose assemblies that would preclude a cost-effective helium leak testing solution.

Solution—VIC’s Air Leak Testing division designed a mass flow system to leak test the hose assemblies at the desired leak rate requirement without need for a vacuum chamber. This solution provided the customer with a simple, cost-effective way to ensure product integrity for the components and the hose assemblies—all from the same reliable manufacturer.
Worldwide Sales, Service, and Support

“Total customer service and application support are as important to manufacturing operations as product performance and reliability. VIC Leak Detection, with the world’s largest base of installed leak detectors, provides total customer support.”

• Single source for sales, service and support: VIC engineers design both the leak test instrument and the system in which that instrument is used, so a single service call supports every aspect of every installation

• Unparalleled process application experience and assistance by factory trained specialists who can help to improve their customers’ manufacturing yields, productivity, and product quality

• Every system designed, built, and tested by our own dedicated staff Customer training and service by factory trained specialists is available worldwide

• Training, custom tailored to individual needs, either in-house or on-site

• Maintenance contracts, and service plans customized to individual needs

• Worldwide telephone support and quick-response service directly from the factory for the leak test instrument, the leak test system, and the application integration

• One call to one company for sales, process application assistance, training, and service—total customer support

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