

The Next Generation
in leak detection technology

USAS™ Leak Test System

Ultra Sensitive Atmospheric Sampling Leak Test Systems offer greater sensitivity, lower operating costs, and smaller footprints than the best existing helium leak test systems—all without vacuum. The heart of these new leak detection systems is the patented USAS Instrument, which represents the next generation in leak test technology:

- Samples at atmosphere with no need for costly high-vacuum components
- Simple accumulation test chamber replaces expensive vacuum chambers
- Uniform concentration of test gas ensured by mixing fans
- Gas recovery system achieves an efficiency of 99.8%
- Background effects eliminated with integral fresh air purge system
- No need for complicated product fixturing
- New technology ideal for
Automotive components
Air conditioning components
Refrigeration components
Gas Meters
Fire Extinguishers
High Voltage Switchgear
and more...
- Contact a VIC Leak Detection Applications Engineer to discuss your requirements

Vacuum Instrument Corporation

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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



This USAS Leak Test System from VIC Leak Detection tests natural gas meters for American Meter Company

Ultra-Sensitive Atmospheric Sampling costs 1/3 less than helium leak test systems

- 10,000 times more sensitive than helium mass spectrometer leak detectors—tests to 10 parts per trillion SF₆
- Leak tests to helium hard vacuum leak rate specifications without vacuum
- Eliminates the need for costly vacuum components such as pumps, chambers, manifolding, and valving
- Easier to use and maintain than helium leak test systems: no mass spectrometer component to maintain
- Efficient gas recovery system permits testing of approximately 15,000 standard components with only one pound of SF₆ gas, therefore tracer gas costs are typically half that of helium



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.

Industrial leak detection applications

VIC leak detectors are ideal for testing automotive system components such as fuel injection systems, fuel tanks, mufflers, catalytic converters, along with air conditioning and refrigeration system components, nuclear containment vessels, steel drums, biopharmaceutical products, and aerospace components. VIC Leak Detection is leading the way to fully automated leak testing solutions. These solutions improve the efficiency of production lines as they meet increasingly stringent testing requirements, and help to improve product quality and customer satisfaction.

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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