

Accessories and Options for Varian Leak Detectors

Atmospheric Gross Leak For 947/948 L6839301

This option extends the gross leak testing range of the 947 and 948 leak detectors to a test port pressure of up to 1 atmosphere. The addition of this factory-installed option allows the user to find leaks as large as 10 std cc/sec at virtually any test port pressures up to atmosphere.

Calibrated Helium Leaks

Varian offers helium leaks traceable to NIST standards for use in calibrating your leak detector. An NW25 or 1 1/8" OD tube fitting and isolation valve are provided as standard on the external leaks. The 10⁻⁶/10⁻⁵ range reference helium leak includes a pressure gauge and refill port for evacuation and sniff test calibration.

External

		1 1/8" Compression Port
NW25		
F8473325	F8473320	10 ⁻⁶ /10 ⁻⁵ std cc/sec range refillable sniffing/evacuation leak with pressure gauge and KF25 adapter
F8473321	F8473301	10 ⁻⁷ std cc/sec range, with valve
F8473322	F8473302	10 ⁻⁸ std cc/sec range, with valve
F8473323	F8473303	10 ⁻⁹ std cc/sec range, with valve
F8473324	F8473304	10 ⁻¹⁰ std cc/sec range, with valve

Internal, 1/8" NPT Fitting (without valve)

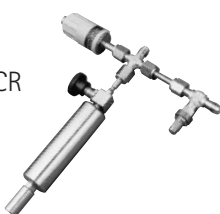
K3264301	10 ⁻⁷ std cc/sec range
K3264302	10 ⁻⁸ std cc/sec range

Calibration

Calibration of existing leaks is done on an advance exchange basis. To order the recalibration service, simply add "GG" in front of the above part numbers.

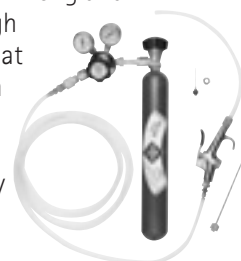
Gas Line Testing Accessory MSPA6415

The gas line testing accessory allows fast response evacuation leak detection of long (>30') gas lines. It is comprised of a male VCR (Cajon 4) cross with needle type purge flow valve and 10⁻⁹ atm cc/sec range calibrated leak. A pressure transducer is optional.



Helium Lecture Bottle Kit L8856301

The Helium Lecture bottle provides a convenient supply of helium for leak testing. Measuring only 14" long and 2 1/2" diameter, the bottle will provide enough helium for a full eight hours of leak testing at normal flow rates. The kit includes a Helium Lecture bottle containing 2 cubic feet of helium at 1800 psi, a pressure and flow regulator (P/N 642972175), and a helium spray probe kit (P/N K0167301) in one package.



Helium Spray Probe Kit K0167301

For use in spraying helium to find the exact location of a leak. Three nozzles are included: a hypodermic nozzle for pinpointing leaks, a flexible tubing nozzle for hard-to-reach areas, and a long, soft copper nozzle that can be bent into almost any configuration to reach into deep crevices. An easy operating spring handle and 10 feet of hose with a female fitting simplifies attachment to the helium regulator.



Ion Source

82850301	Tungsten Ion Source
82850302	Thoriated Iridium Ion Source
GG82850301	Tungsten Ion Source (Rebuilt)
GG82850302	Thoriated Iridium Ion Source (Rebuilt)

Varian Ion Sources contain two prearranged filaments, a built-in header, and all appropriate mounting hardware in a single all-welded assembly. Varian offers both new and rebuilt ion sources. Rebuilt ion sources can be purchased on an advance exchange basis. Tungsten ion sources are available for older models; please refer to the product manual.



Leak Detection Handbook 699909070

The 135-page handbook, *Introduction to Helium Mass Spectrometer Leak Detection*, is useful for experts and novices. It covers leak detection fundamentals, helium leak detector types, equipment calibration, and product fixture design. A wide variety of process-specific application solution notes is also available.



Leak Detection Service Contracts

Varian offers a full range of preventive maintenance and comprehensive on-site support options for all of our leak detectors. See page 26.

Leak Test Data Wizard VSLTDW

The Leak Test Data Wizard is a comprehensive data management software package for use with our VS Series leak detectors. It is a flexible PC based, graphic-rich tool that makes full use of the data from the VS leak detector to customize automation of basic leak test processes, assuring testing uniformity over time or between operators.



See page 9.

Accessories and Options for Varian Leak Detectors (Cont'd)

Training Programs

Training courses for leak detector operation and maintenance are offered in regularly scheduled classes at our Palo Alto, California or Lexington, Massachusetts facilities. On-site training can also be provided at your plant. Contact your local sales engineer or see the training and service sections of this catalog.

See worldwide service and support on page 26.

See Leak Detector Training Programs on pages 28 and 29.

PHD-4 Bag

VSPHD4BAG

The Power Probe is a "sniffer" probe designed to locate leaks emanating from sealed containers internally pressurized with helium. The Power Probe adjusts for varying sensitivity and response time. It is extremely rugged and can be easily disassembled for cleaning.



Power Probe

K9565301 Power Probe with 1 1/8" Test Port Adapter,

10' length

K9565302 Power Probe with 1 1/8" Test Port Adapter, 25' length

K9565306 Power Probe with KF25 Flange, 10' length

K9565307 Power Probe with KF25 Flange, 25' length

K9565303 Spare Tip Filters (10 each)

The Power Probe is a "sniffer" probe designed to locate leaks emanating from sealed containers internally pressurized with helium. The Power Probe adjusts for varying sensitivity and response time. It is extremely rugged and can be easily disassembled for cleaning. The probe kit includes 5 tip filters and is available with 10 or 25 feet of connecting tubing and an inlet adapter to fit on the leak detector. It is ideal for fast response sniffing with MacroTorr pumped leak detectors.



Preamplifiers

K3333301 956, 959 (DP and Turbo)

L9030301 959 (MacroTorr), 990 and 979 Standard Sensitivity

K9740301 947/948 and 960 (Collector Assembly)

R1003301 979 High Sensitivity

Spare preamplifiers and collectors are available for all portable and cabinet leak detector spectrometer assemblies. They are header-mounted and easily field-replaceable.

Spectrometer Tube Cleaning Kit

670029096 Kit with pre-saturated wipes and swabs
This Cleaning Kit contains clean wipes pre-saturated with Dow-Corning OS-20 solvent plus cotton swabs for cleaning in small holes or corners. The kit is adequate for three spectrometer cleanings and can also be used for a variety of other vacuum applications.



Test Port Adapters and Kits

L8741301 1 1/8" Test Port to NW25 nipple adapter

L8741302 1 1/8" Test Port to NW40 nipple adapter

KCP401125 Adapter from NW40 to 1 1/8" compression fitting

LDCOMPINADKIT Test Port Adapter Kit, to 1 1/8" compression fitting

LDNW25INADKIT Test Port Adapter Kit, to NW25 fitting

Test Port Extension Manifold *On request* K9799303

The Test Port Extension Manifold provides a 1" (28 mm) ID quick coupling port on both the left side and the right side of the 947/948 or 960 leak detector. The standard test port is still available for use with the extension manifold attached.

Throttle Valve, for 1 1/8" Compression Port 626603345

The Varian throttle valve is a manually operated, NW25 to 1 1/8" tubulated variable conductance device used to control the flow of gas to the leak detector. It is frequently used in leak detector applications in which a grossly leaking part or vacuum chamber will not permit the leak detector to go into the test mode. The throttle valve is a non-quantitative approach to locating very large leaks in your vacuum system.

Tuning Leak, for 1 1/8" Compression Port K1608301

The Tuning Leak consists of a ten-segment calibrated needle valve which can be used as an aid to gross leak testing or for gross leak calibration. The Tuning Leak can be used with any Varian Leak Detector and can also provide an indication of background helium in the testing area.



Throttle/Tuning Leak Valve with NW25 Fitting R1947301

For leak detectors with an NW25 inlet, the tuning leak and throttle valves have been combined into one product. This valve performs the same functions as the two described above.



Universal Test Fixture Option (Flapper Box)

L6241301	947/948 Series, 1 1/8" Compression Port
L6241305	979 Series, 1 1/8" Compression Port
L6241306	979 Series, NW25

This leak detector option makes leak testing of small parts almost totally automatic and very fast. With this option, the total time to test a typical integrated circuit or other small device is less than six seconds. The fixture is clamshell-shaped with tapered walls and a spring-loaded lid. The fixture can be used with the Automatic Sequencer feature in Models 947/948/960 or 979 in order to fully automate and quicken the test cycle. Size: 4" ID x 1" deep. An insert is supplied to reduce the size to 3.25" ID, tapered to 2.83" x 3/4" deep.

Probe Set, PHD-4 9693515

This set consists of three different probe tips that can replace the standard tip for specific applications. One tip has a smaller diameter for more precise leak location. A second is more flexible, for easy access to difficult areas, and a third is for general use.

Capillary Leak with Refillable Reservoir, PHD-4

9693540

This capillary leak is useful to monitor proper operation of the PHD-4, ensuring that it is sensitive to helium at all times. The probe tip can be simply inserted in the capillary outlet and a signal of given value is displayed on the front panel. The helium reservoir can be refilled from a helium source.

Probe with 10m (30') Sampling Line, PHD-4 9693525

For applications in which the length of the standard probe is not adequate, a probe extension is available. It has a maximum length of 10m, but may be cut to shorter lengths.

Telescoping Extension Probe, PHD-4 9693520

This probe assists the operator when additional rigid length is required, as when checking underground objects, or objects beyond arms length. The tip has a small funnel to better convey helium to the probe.