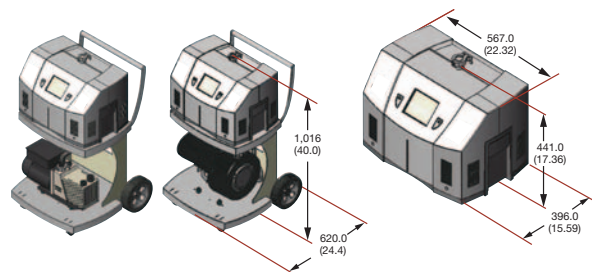


AGILENT LEAK DETECTION INSTRUMENTS

▶ Agilent VS Series



Dimensions: millimeters (inches)

VS Series leak detectors combine the simplicity of two-button operation with advanced system intelligence. Start and vent buttons permit simple day-to-day operation. User-friendly software offers intuitive navigation to vast system capabilities. Programmable test sequences simplify daily operation, minimize operator error, and maximize production efficiency. The TFT-style touch screen features high definition and brightness with wide viewing angles.

Setup for worldwide use, these leak detectors can be operated in multiple languages – English, French, German, Spanish, Korean, Japanese and Chinese – and units of measure. And the VS Series conforms to CE, UL and CSA standards, assuring global acceptance.

VS Series leak detectors employ Agilent's primary pumps – rotary vane or scroll – and high vacuum pumps that deliver high inlet pumping speed and inlet pressure tolerance, minimizing test cycle time and maximizing production throughput.

State-of-the-art spectrometer and vacuum system design enable a broad range of test methods for specific applications. The high efficiency ion source and beam optics optimize sensitivity and mass separation, giving the VS Series very high sensitivity to meet the most stringent leak test requirements. At the same time, these leak detectors enjoy high test port pressure tolerance which permits detection of large leaks.

In addition, high helium pumping speed ensures fast system response and clean-up times.

Primary pump and system mounting options may be selected to best suit application requirements and test environments, and the compact, lightweight design enables easy transport from one application to another. Robust design innovations allow the VS Series to conform to the most rigorous industrial standards and operate dependently in the most challenging environments.

Technical Specifications

Model Number	PR02	PD03	BD/MD15	BR/MR15	BD/MD30+
Configuration options	Portable		Bench/Mobile		
Primary pump type	Rotary vane pump	Dry scroll pump	Dry scroll pump	Rotary vane pump	Dry scroll pump
	DS-42	Dry pump combo	IDP-15	DS-302	TS-620
	2 m ³ /hr (34 l/m)	3 m ³ /hr (50 l/m)	15 m ³ /hr (256 l/m)	15 m ³ /hr (250 l/m)	30 m ³ /hr (500 l/m)
Minimum detectable leak at 1000 ppm ambient helium	5 x 10 ⁻¹² atm cc/sec; 5 x 10 ⁻¹² mbar l/s; 5 x 10 ⁻¹³ Pa m ³ /sec helium				
Maximum test port pressure	13 mbar, 10 Torr, 1330 Pa				
Helium pumping speed @ test port (fine test)	1.8 l/s				
Calibration routine	Automated or manual (internal or external)				
Background suppression	Push button initiated auto zero, and auto zero < zero function				
User interface	High clarity, color display, TFT touch screen				
Selectable languages	English, French, German, Japanese, Korean, Mandarin, Spanish				
Automated cycling	Programmable rough time, test time, reject set points				
Response time	< 0.5 seconds				
Set points	Standard, 5 set points, N/O or N/C; 3 leak rate, 1 pressure, 1 audio				
Communications interface	RS232 and analog (standard), Discrete IO (optional)				
Conformance standards	UL/CSA, CE				

Ordering Information

VS Models	
Description	Ordering Instructions
VS PR02 Portable Leak Detector, 2 m ³ /hr rotary vane pump	Choose Product Number G8600A
VS PD03 Portable Leak Detector, 3 m ³ /hr dry scroll pump combo	Choose Product Number G8600B
VS MR15 Mobile Leak Detector, 15 m ³ /hr rotary vane pump	Choose Product Number G8601A
VS MD15 Mobile Leak Detector, 15 m ³ /hr dry scroll pump	Choose Product Number G8601C
VS MD30+ Mobile Leak Detector, 30 m ³ /hr dry scroll pump	Choose Product Number G8601B
VS BR15 Bench Mount Leak Detector, 15 m ³ /hr rotary vane pump	Choose Product Number G8602A
VS BD15 Bench Mount Leak Detector, 15 m ³ /hr dry scroll pump	Choose Product Number G8602C
VS BD30+ Bench Mount Leak Detector, 30 m ³ /hr dry scroll pump	Choose Product Number G8602B

Additional Options (Add Option Number to Product Number as desired)

Description	Ordering Instructions	Benefit
Oil Mist Eliminator for DS42 RVP	Add Option #100	Reduces oil vapor in pump exhaust.
Discrete IO Interface	Add Option #101*	Allows control and monitoring via PC or PLC. 12 outputs permit total control of the instrument and 6 inputs allow recording of key test data.
Wireless remote, base unit	Add Option #102	Allows communication with wireless hand-held remote control, ordered separately (p/n VSLDWRC).
Nitrogen vent	Add Option #103	Allows the VS leak detector to be vented with nitrogen or other gas of the users preference. Maximum supply pressure 2 PSI (0.14 bar). Requires user supplied overpressure protection.
1 ½ inch compression testport	Add Option #104	For customers who prefer the old-style 1 ½ in. compression fitting on the leak detector inlet.
Test fixture cable	Add Option #105*	For customers who wish to add a test fixture and test initiation switch. Requires Discrete IO Interface, ordered separately (p/n VSFACIO).
Harsh environment (HE) probe	Add Option #106	Designed to withstand the wet environment and high temperatures inside condenser piping without the need for dryers, chillers, a secondary vacuum pump, or throttling valves.

* Option #101 is required when Option #105 is ordered. Example: G860xx#101#105.

Accessories (Ordered Separately)

Description	Part Number	Benefit
Power probe, NW25	K9565306	Rugged sniffer probe for testing of sealed containers pressurized with helium; adjusts for varying sensitivity and response time.
Helium spray probe	K0167301	Allows spraying of helium to find the exact location of a leak. Includes three nozzle types for different application requirements.
Wireless remote (hand held unit)	G8600-60002	Brings all major functions of the leak detector to the user's fingertips, enabling a truly portable solution at up to 100 meters.
External calibrated leaks	F8473xxx (see page 23 for details)	Leak traceable to NIST standards for precise calibration of your leak detector.
Tuning leaks	K1608301 R1947301	Ten segment calibrated needle valve to aid gross leak testing.
Universal test fixture (Flapper box)	L6241xxx (see page 25 for details)	This accessory makes testing of small parts very fast and almost totally automatic.
Leak Test Data Wizard	VSLTDW	Comprehensive, user-friendly data management software enables automation of basic leak test processes, tracks data history, and provides graphical display of leak test data.