



VS Series Mass Spectrometer Leak Detector



SPECIAL FEATURES:

VS Series Leak Detectors

Easy-to-Use – Two Button Operation

VS Series Leak Detectors combine the simplicity of two-button operation with advanced system intelligence.

- Fully automated start-up and calibration maximizes productivity
- Intuitive menu structure is easy to navigate
- Programmable test sequences improves testing efficiency
- Color touch screen provides excellent clarity, even at wide angles

Powerful – Broad Range of Test Methods

The state-of-the-art spectrometer and vacuum system design provides powerful capability, enabling a broad range of test methods for specific applications.

- High test port pressure allows for detection of large leaks
- 12-range MDL (sensitivity) meets the most stringent leak test requirements
- High helium pumping speed ensures fast system response and clean-up times
- New high efficiency ion source and beam optics optimize sensitivity and mass separation

Versatile – Multiple System Configurations

A wide range of options allows for broad configuration flexibility, meeting all application requirements and test environments.

- Primary pump and system mounting options may be selected to best suit your needs
- Multiple language and units capability permits easy implementation worldwide
- Compact lightweight design enables easy transport from one application to another

Dependable – Robust Design

Robust design innovations allow the VS series to conform to the most rigorous industrial standards and operate dependably in the most challenging environments.

- Fast clean-up time enhances system up-time
- Robust Faraday cup technology delivers proven reliability with low cost of ownership
- Conforms to CE, UL and CSA standards, assuring global acceptance

UNIQUE VACUUM SOLUTIONS

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Truly Portable – Wireless Remote Control/Display

Hand-held remote performs essential functions up to 100 meters (328 feet) indoors, facilitating access to all leak sites.

- Eliminates cumbersome cables while extending range
- Allows testing of large systems by a single operator
- Leak detector can be located outside clean room to prevent contamination
- Multiple channels for use of one remote with up to ten leak detectors

TECHNICAL SPECIFICATION:

Configuration Options	:Bench Top
Primary Pump Type	:Rotary vane pump DS-42 2 m3/hr (34 l/m)
Minimum Detectable Leak at 1000 ppm ambient He	:5 x 10 ⁻¹² atm cc/sec : 5 x 10 ⁻¹² mbar l/s : 5 x 10 ⁻¹³ Pa m3/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
Serial Interface	: RS-232 optically-isolated interface @ 9600 baud (DB-9S)
Discrete I/O	: Optically isolated, 5-24 volts VDC outputs and inputs (DB-25S)
Wireless Remote Control (optional)	: 2.4 GHz ISM band, 100m (328 ft) range, 4 AA batteries or 5 VDC supply
VS PR02 Leak Detector operating voltage	: 220V AC / 50 Hz.
Weight	: 38 kg (83 lbs)

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