

VS Series Charge Management System



Managing a leak testing process is critical in today's manufacturing environment. With ever-increasing quality standards, regulatory requirements, and the need to control costs, verifying your product's integrity is paramount. To meet this need, Varian offers the Charge Management System (CMS), a user-friendly, versatile tool that helps manage your leak detection process from gross to fine test.

The CMS is the most compact and versatile tool of its kind. Parts requiring a charge of tracer gas (typically helium or hydrogen/nitrogen mix) need to be properly pre-tested and evacuated prior to testing with a leak detector. With the CMS you can program the entire test cycle to automatically proof test, perform pressure/vacuum decay, charge the part with tracer gas, and even remove the gas at the conclusion of the test and backfill with the final desired gas.

The system is a global solution with selectable universal pressure units and voltages and a multilingual color touch screen user interface.

Features

- Automatically performs the tests you select, such as:
 - Proof test
 - Pressure decay
 - Evacuation
 - Vacuum decay
 - Trace gas charging and mixing
 - Gas recovery management
 - Cleaning and back fill
- Allows dilution of tracer gas with air or nitrogen (concentrations of <10% are possible in many applications)
- Works with existing gas recovery systems
- Controlled evacuation and charging
- Color touch screen
- Universal units and power
- Multiple languages
- "Reference leak" to verify that the leak detector sniffer probe is functional

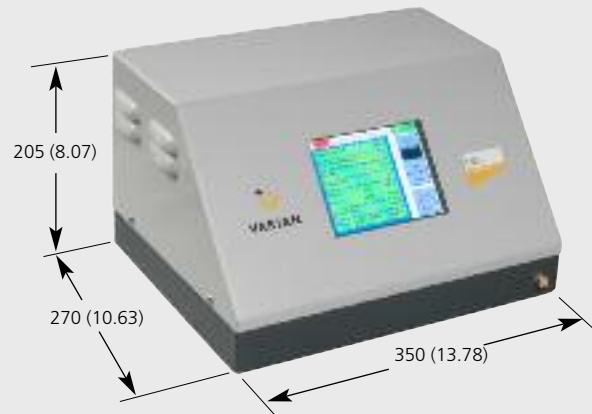
Benefits

- Complete process control in one easy to use instrument
- Allows you to completely customize your process with several gross leak test and charging options
- Eliminates tracer gas background issues
- Reduces tracer gas consumption and expense
- Insures thorough and even distribution of tracer gas thereby avoiding possible sensitivity fluctuations and missed leaks
- Easy to program
- All parameters clearly visible
- Worldwide acceptance
- Continuous verification of your process



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Dimensions



Dimensions: millimeters (inches)

Technical Specifications

Proof test pressure	Three versions: Low pressure: 1-3 Bar/15-45 PSI/100-300 kPa/750-2,250 Torr (absolute) Standard pressure: 2-16 Bar/30-235 PSI/200-1600 kPa/1,500-12,000 Torr (absolute) High pressure: 5-21 Bar/75-310 PSI/500-2,100 kPa/3,750-15,750 Torr (absolute)
Pressure decay	Pressure resolution: 1 mbar/0.015 PSI/100 Pa/0.75 Torr
Evacuation	Adjustable, vacuum level dependent on the type pump used
Vacuum decay	Pressure resolution: 1 mbar/0.015 PSI/100 Pa/0.75 Torr
Helium charging conditions	Adjustable to maximum proof test pressure
Automatic helium mixing	Selectable 1% to 99% helium concentration depending on volume, pre-evacuation level and required charging pressure
Display panel	High-clarity, wide angle color touch screen 152 x 102 millimeters (6 x 4 inches)
Display languages	English, German, French, Spanish, Swedish, Korean, Chinese, Japanese
Compressed air requirements	6 Bar/87 PSI/600kPa/4,500 Torr (minimum)
Air, nitrogen and tracer gas connections	1/4" BSP
Communication interface	RS232
Weight	13 kg/28.8 lbs
Certifications	CE, EMC and FCC
Power	100-240 VAC, 50/60 Hz, 1.2 Amps

Ordering Information

Description	Part numbers
Charge Management System – Low Pressure	VSCMSLP
Charge Management System – Standard Pressure	VSCMSBU
Charge Management System – High Pressure	VSCMSHP
Remote Control	VSCMSRC

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