

MS•60 / MS•60Dry

High sensitivity portable helium leak detectors

–with Touch Screen Graphical User Interface

Quickly and accurately detects leaks for a broad range of applications—from Pharmaceuticals to Semiconductors

- The Touch-Screen GUI allows for greater system control and monitoring during system start-up and operation.
- Displays include system status, accept/reject status, system health, setup, calibration and other diagnostic functions.
- Standard 7 or 10.6 CFM direct drive foreline/roughing pump for faster cycle times.
- 16 CFM (**Dry**) foreline/roughing pump for faster cycle times and clean-room applications.
- Internal or external calibration for flexibility.
- Digital Input/Digital Output
- Fully automatic.
- Dual magnetic sector high resolution mass spectrometer.
- Three modes of operation.
- Simple one-button start-up.



Applications – MS-60

- Automotive
- Compressors
- Electron Beam –Welders
- Gas Tanks
- Heat Exchangers
- High Pressure Devices
- Nuclear Reactors
- Power Distribution Plants
- Refrigeration Parts

Applications – MS-60 Dry

- Beverage/Food Containers (FDA Standards)
- Electronics
- Freeze Dryer Applications
- Gas Distribution Lines
- Particle Accelerators
- Pharmaceuticals
- Process Chambers
- Quartz Crystal Packages
- Semiconductors
- UHV Systems & Hardware



MS•60 / MS•60 DRY PERFORMANCE SPECIFICATIONS

Characteristics	Units	7 CFM	10.6 CFM	Dry Model
Sensitivity, vacuum *	atm-cc/sec	5.0×10^{-12}		
Sensitivity, sniffing		1.0×10^{-8}		
Leak Measurement Range		5.0×10^{-12} to 1.0×10^{-4} (10 w/ext pump)		
Leak Ranging	-	Auto/Manual		
Start-up time	minutes	<3		
Response Time *	seconds	<2 direct		
Resolution for ⁴ He *	-	14		
Mass Spectrometer Tube	-	180° deflection; dual-magnetic sector		
Auto-tuning	-	Yes		
Auto-calibration	-	Internal – yes; External - manual		
Auto-zeroing	-	Yes, 3 modes: Normal, Spray and Hold		
Reject set-point	-	Yes		
Built-in calibrated leak	-	Yes		
NIST traceable	-	Yes		
Temperature compensated	-	Yes		
He Scan	-	Yes		
Filaments	-	2 - Tungsten		
Maximum Operating Pressure	Torr	7.5, 760 w/ext roughing option		
Display	-	Alpha/Numeric		
Units	-	atm cc/s, mbar•l/s, Pa•M ³ /sec		
I/O	-	0-5V or 0-10V chart; Linear Mantissa and Exponent or Logarithmic LR and Port Pressure and Foreline Pressure		
Digital I/O (PLC interface)	-	6-output, 7-input		
Printer Port	-	Yes		
RS-232C	-	Yes		
Software	-	Password security, 3-mode auto-zero		
VACUUM SYSTEM				
Vacuum Mode	-	Direct, reverse or combination flow		
Roughing Pump	cfm	7 rotary vane	10.6 rotary vane	Built-in 16 cfm dual stage diaphragm/molecular drag pump
High Vacuum Pump	liters/second	61 turbomolecular		
Vacuum Gauging	-	Pirani: Test port & foreline; Ion: High vacuum		
Test Port Connection	-	NW25		
PHYSICAL				
Dimensions (W x H x D)	Inches (cm)	21 x 16.9 x 16.5 (53.3 x 42.9 x 41.9)		
Weight	lbs. (kg)	133 (60.3)	135 (61.2)	100 (45.4)
ELECTRICAL				
Power	V/Hz/A	115/50-60/8; 230-240/50-60/5; 100/50-60/8		

Features:

- ▶ 5×10^{-12} atm-cc/sec sensitivity
- ▶ Two tungsten filaments
- ▶ Password security
- ▶ AZ³, 3 modes of advanced auto-zero

Benefits:

- ▶ Most sensitive portable available
- ▶ For longer service life
- ▶ Protects against tampering
- ▶ Faster, more accurate testing

Vacuum Instruments Corporation, LLC

2101 Ninth Avenue • Ronkonkoma NY 11779 • Tel 631 737 0900 • Fax 631 737 1541

vicleakdetection.com • email sales@vicleakdetection.com

* Performance determined in accordance with American Vacuum Society Standards; Specifications subject to change without notice.

©2018 Vacuum Instruments Corporation, LLC; ©VIC Leak Detection is a registered trademark and the VIC symbol and the MS-(series) are trademarks of Vacuum Instruments Corporation, LLC.

REV072418