

MS•60 Series

High sensitivity portable helium leak detector

Quickly and accurately detects leaks for a broad range of applications

- Standard 7 cfm direct drive foreline/roughing pump for faster cycle times; optional 10.6 cfm available
- 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

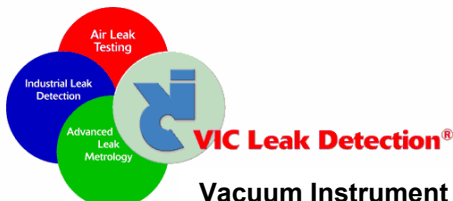
- Automotive
- Compressors
- Electron Beam –Welders
- Gas Tanks
- Heat Exchangers
- High Pressure -Devices
- Nuclear Reactors
- Power Distribution Plants
- Refrigeration Parts

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 Instrument Corporation

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MS•60 PERFORMANCE SPECIFICATIONS

Characteristics	Units	7 CFM	10.6 CFM
Sensitivity, vacuum *		5.0×10^{-12}	
Sensitivity, sniffing	atm-cc/sec	1.0×10^{-8}	
Leak Measurement Range		5.0×10^{-12} to 1.0×10^{-5} (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
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)
ELECTRICAL			
Power	V/Hz/A	115/50-60/8; 230-240/50-60/5; 100/50-60/8	

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

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