

MS•40 Series

Portable helium leak detectors

Accurate and Easy to Use

Quickly and accurately detects leaks for a broad range of applications

- Highest accuracy in the industry
- Easy to use, most automated and fast
- Reduce operator error
- Internal NIST-traceable temperature compensated calibrator
- Fast, non-destructive leak testing assures longer life and greater protection for your product
- Allows testing for the smallest leaks at the highest pressures
- Remote control



Applications

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

Features:

- ▶ Simple one-button start up
- ▶ Automatic operation, tuning & calibration
- ▶ Three modes of operation
- ▶ Mini-sniffer probe port

Benefits:

- ▶ System is ready in less than 3 minutes
- ▶ Reduces operator training; easy to use
- ▶ Faster, more accurate testing
- ▶ Sniffing operation through dedicated port



Vacuum Instrument Corporation

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MS•40 PERFORMANCE SPECIFICATIONS

Characteristics	Units	MS-40
Sensitivity, vacuum *	atm-cc/sec	4.0×10^{-11}
Sensitivity, sniffing		6.0×10^{-10}
Leak Measurement Range		10×10^{-4} to 4.0×10^{-11} (10×10^{-3} to 4.0×10^{-11} w/ext pump)
Leak Ranging	-	Auto/Manual
Start-up time	minutes	<3
Response Time *	seconds	<2 direct, <3 reverse
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
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
Background Compensation	-	Continuous automatic compensation for system background
Testable Masses	-	3 and 4
Printer Port	-	Yes
RS-232C	-	Yes
Remote Control Unit	-	Yes
VACUUM SYSTEM		
Vacuum Mode	-	Direct, reverse or combination flow
Roughing Pump	cfm	1.2 Mechanical Foreline/Rouging 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)	20.5 x 15 x 14 (52.7 x 38.1 x 35.6)
Weight	lbs. (kg)	87 (39.5)
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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