

# MS•60 Dry

High sensitivity Dry portable helium leak detector

Accurately detects leaks for a broad range of applications—from Pharmaceuticals to Semiconductors

- 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

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

## Features:

- ▶  $5 \times 10^{-12}$  atm-cc/sec sensitivity
- ▶ Two tungsten filaments
- ▶ Password security
- ▶ AZ<sup>3</sup>, 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**

2099 Ninth Avenue • Ronkonkoma, NY 11779 • T 631 737 0900 • F 631 737 1541 • sales@vicleakdetection.com

[www.vicleakdetection.com](http://www.vicleakdetection.com)



## MS•60 DRY PERFORMANCE SPECIFICATIONS

Characteristics	Units	MS-60 Dry
Sensitivity, vacuum *		$5.0 \times 10^{-12}$
Sensitivity, sniffing	atm-cc/sec	$1.0 \times 10^{-8}$
Leak Measurement Range		$5.0 \times 10^{-12}$ to $1.0 \times 10^{-5}$ (10 w/ext pump)
Leak Ranging	-	Auto/Manual
Start-up time	minutes	<3
Response Time *	seconds	<2 direct
Resolution for <sup>4</sup> 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 <sup>3</sup> /s, Pa <sup>3</sup> /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
<b>VACUUM SYSTEM</b>		
Vacuum Mode	-	Direct, reverse or combination flow
Roughing Pump	cfm	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
<b>PHYSICAL</b>		
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)	100 (45.4 kg)
<b>ELECTRICAL</b>		
Power	V/Hz/A	115/50-60/8; 230-240/50-60/5; 100/50-60/8

### Vacuum Instrument Corporation

2099 Ninth Avenue • Ronkonkoma NY 11779 • Tel 631 737 0900 • Fax 631 737 1541

www.vicleakdetection.com • email sales@vicleakdetection.com

REVF090616

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

©2009 Vacuum Instrument Corporation; ©VIC Leak Detection is a registered trademark and the VIC symbol and the MS-(series) are trademarks of Vacuum Instrument Corporation.