

# MS-50 Dual Port

## Automated High Speed Production Console Helium Leak Detector with Two Test Ports

Unique dual port design increases leak testing throughput by allowing simultaneous testing on one port while loading second port

Dual pump system – dedicated Dry Foreline and Dry Roughing Pumps

Built-in diagnostics for trouble-free maintenance

Simple one-button power up has system ready to test in less than 3-minutes

Fully automatic startup, tuning and calibration

High inlet pressure of 7.5 Torr provides fast time to test

Three flow modes provide flexibility and maximum productivity for application-specific leak testing

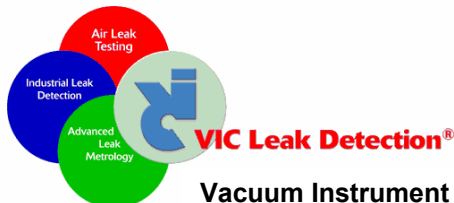
Resolution of 14 at mass 4 is twice the industry average

The only production leak detector with a full screen interactive flat panel LCD display

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



*The MS-50 Dual Port is available in various configurations designed to meet your specific leak testing requirements.*



**Vacuum Instrument Corporation**

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# MS•50 Dual Port PERFORMANCE SPECIFICATIONS

Characteristics	Units	MS-50	MS-50 Dry	MS-50 Dry HS
Sensitivity, vacuum *	atm cc/sec	$3.0 \times 10^{-11}$		$3.0 \times 10^{-12}$
Sensitivity, sniffing		$1.0 \times 10^{-08}$		
Leak Measurement Range		$3.0 \times 10^{-11}$ to 10		$3.0 \times 10^{-12}$ to $1.0 \times 10^{-5}$
Leak Ranging	-	Auto/Manual		
Start-up Time	minutes	<3		
Response Time *	seconds	<2 direct, <2.5 reverse		<2
Resolution *	-	14 at mass 4		
Gross Test, Time (with UFT Option)	seconds	3 (100 mTorr)		
Fine Test, Time (with UFT Option)	seconds	10 (25 mTorr, $10^{-10}$ atm-cc/sec)		
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; $10^{-08}$ range		Yes; $10^{-09}$ range
NIST Traceable	-	Yes		
Temperature Compensated	-	Yes		
Scan / Descan	-	Yes		
Filaments	-	2 Tungsten		
Max Operating Pressure	Torr	7.5 fine; 100 gross		0.200
Display	inches (cm)	15 (38.1) LCD flat panel display		
Units	-	cc/second, mbar*l/second, Pa*M <sup>3</sup> /second		
I/O	-	0~5V chart, parallel printer		
Printer Port	-	Yes		
RS-232C	-	Yes		
Software	-	50 programmable test recipes		
<b>Vacuum System</b>				
Vacuum Mode	-	Direct, reverse or combination		Direct
Roughing Pump	cfm	16 direct drive	10 scroll pump	
Foreline Pump	-	7 direct drive	5 dual stage diaphragm/molecular drag	
High Vacuum Pump	liters/second	61 turbo		
Vacuum Gauging	-	Pirani: Test Port and Foreline / Ion: High Vacuum		
Cold Trap	-	N/A	N/A	Optional
<b>Physical</b>				
Dimensions (W x H x D)	inches (cm)	25.75 x 30.625 x 35.25 (65.40 x 77.79 x 89.54)		
Test Cup, UFT Option (Ø x D)	inches (cm)	4.5 x 1.0 (11.4 x 2.5)		
Test Port Connection	inches	1.125		
Weight	lbs. (kg)	475 (215.45)		
<b>Electrical</b>				
Power	V/Hz/A	115/50-60/30; 230-240/50-60/15; 100/50-60/30		

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

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