



# Veeco MS-40

## Technical Specifications

Characteristics	Units	MS-40
Sensitivity, vacuum *		$4.0 \times 10^{-11}$
Sensitivity, sniffing	atm-cc/sec	$6.0 \times 10^{-10}$
Leak Measurement Range		$10 \times 10^{-4}$ to $4.0 \times 10^{-11}$ ( $10 \times 10^{-3}$ to $4.0 \times 10^{-11}$ w/ext pump)
Leak Ranging	-	Auto/Manual
Start-up time	minutes	<3
Response Time *	seconds	<2 direct, <3 reverse
Resolution for $^4\text{He}$ *	-	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 <sup>3</sup> /s
Background Compensation	-	Continuous automatic compensation for system background
Testable Masses	-	3 and 4
Printer Port	-	Yes
RS-232C	-	Yes
Remote Control Unit	-	Yes
<b>VACUUM SYSTEM</b>		
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
<b>PHYSICAL</b>		
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)
<b>ELECTRICAL</b>		
Power	V/Hz/A	115/50-60/8; 230-240/50-60/5; 100/50-60/8



# PROVAC

## SALES

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## Veeco MS-40

### Features & Benefits

- highest accuracy in the industry
- internal NIST-traceable temperature compensated calibrator
- automatic operation, tuning & calibration
- fast, non-destructive leak testing assures longer life
- allows testing for smallest leaks at highest pressures
- system ready in less than 3 minutes
- mini-sniffer probe port
- remote control

### Applications

- automotive • compressors • electron beam welders • gas tanks • heat exchangers • high pressure devices • nuclear reactors • refrigeration parts • power distribution plants

