

Performance	Units	WS-1012-E*	WS-1015-E*	WS-1074D-E*	WS-1076D-E*
Vacuum Sensitivity	atmcc/sec	$5 \times 10^{-12}$	$5 \times 10^{-12}$	$5 \times 10^{-12}$	$5 \times 10^{-12}$
Sniffing Sensitivity	atmcc/sec	$1 \times 10^{-8}$			
Helium Pumping Speed	liter/sec	2.8			
Operating Range	decades	12	12	12	12
Vacuum Test Mode		Enhanced Counter Flow			
Max Inlet Pressure	torr	0.3			
Gross Leak Detection		Audio Feedback for Gross Leak Location Between Atmosphere and 0.3 torr			
Startup Time	minutes	< 3			
Response Time	seconds	< 2			
<b>Mass Spectrometer</b>					
Model		Inficon Modul 1000			
Ion Source		2 Filaments, Iridium/Ytria-Oxide Coated			
Mass Spec Tube		180° Deflection, Magnetic Sector			
Internal NIST Leak	atmcc/sec	$10^{-7}$ Range			
<b>Software Functionality</b>					
Vacuum Test Sequence		Manual, Auto-test, Commander (Advanced Auto-test)			
Pump-down Modes		Rough Pump, Foreline Pump, or Both			
Measure (Test) Modes		Direct Flow, Split Flow (with Rough Pump)			
Helium Charge		Auto control to external charge manifold, Gross leak test			
Setpoints (Triggers)		3 Helium Signal, Vacuum Level, Pumpdown Time			
Data Logging		Test Results, Calibration, Errors, Service			
Optional Zero Functions		Auto-Zero, Background Suppression			
Calibration		Auto & Manual Modes, Internal & External Leak Standard			
<b>Vacuum System</b>					
Test Port		1 1/8" / KF40 / KF25			
Foreline Pump	cfm	7, Rotary Vane		0.8, Dry Diaphragm	
Rough Pump	cfm	15, Rotary Vane	28, Rotary Vane	16, Dry Roots	22, Dry Roots
Turbo Pump	liter/sec	60			
Vacuum Gauging		Pirani: Foreline & Test Port			
<b>Operator Interface</b>					
Display		5.5" Monochrome Graphical with Soft Keys, Graphical Trending, Digital Display			
Display Units		Atm.cc/sec, mbar.liter/sec, torr.liter/sec, Pa.m3/sec			
Status Lights		System: Ready, Pump-down, Measure; Part: Pass, Fail			
Operator Buttons		Start, Stop, Zero, Menu			
Audio		4 Modes, Volume Control			
Languages		English, French, German, Spanish			
<b>Remote Interface</b>					
Serial		RS232: Control, Data Log, Trending, Parameter Store/Load, Data Streaming			
Chart Recorder		2 x 0-10 VDC, Programmable			
Digital Input		8 x PLC compatible, Programmable (35 V max)			
Digital Output		Status, Valve Control, Trigger, Relay Contacts (60 VAC / 25 VDC / 1 A)			
<b>Physical</b>					
Dimensions (WxHxD)	in (mm)	25.5 (648) X 39.3 (998) X 28.0 (711)			
Power	V/Hz/Amps	120/60/25	220/60/20	120/60/30	120/60/30
Weight	lbs (kg)	340 (155)	420 (191)	345 (157)	370 (168)
<b>Warranty</b>					
Ion Source	years	3			
System	years	2			

\*NOTE: Replace – E with – P for pneumatic operated valve. Requires 80 psig compressed air.