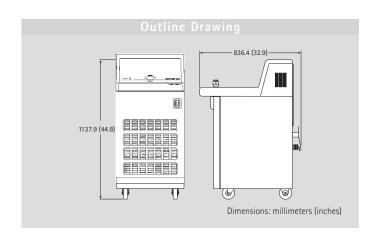
947/948/960 Cabinets



The 947, 948 and 960 cabinet model leak detectors are especially designed for high production testing. By using two primary pumps and high conductance valve manifolds, these systems deliver very fast cycle times. The valves have proven reliable for over 1 million cycles. Using two primary pumps also allows for gross leak testing. The 948 uses liquid nitrogen to improve the pumping of water vapor and other condensables in the roughing cycle, further reducing cycle times. The 960 utilizes liquid nitrogen to improve cycle times and sensitivity. All of these units feature one button automatic calibration and



zeroing. Parallel I/O and RS232 remote interfaces are available for remote control operation and data collection.

- Cabinet configuration with stainless work surface facilitates high volume testing
- Fully automated tuning, calibration and zeroing reduces likelihood of operator error
- High transfer pressure, high conductance valve manifold and two primary pumps result in very short cycle times
- Available in wet and dry versions
- Integrated internal calibration standard (NIST-traceable)

	Technic	al Specifi	cations				
		g	947	9	48	9	60
Sensitivity Ranges, atm cc/sec	Standard sensitivity unit	101	to 10 ⁻⁸	10 ¹ t	o 10 ⁻⁸	10 ¹ to	10-10
· -	High sensitivity unit	101	to 10 ⁻⁹	10 ¹ t	o 10 ⁻⁹		
Minimum detectable leak at 1000 ppm	Standard sensitivity unit	2 x	: 10-9	2 x	10-9	2 x	10-11
ambient helium, atm cc/sec helium	High sensitivity unit	2 x	10-10	2 x	10 ⁻¹⁰		
Maximum test port pressure, Torr		7	'60	7	60	C).5
High vacuum pump				V70D Turbo	o/drag pump		
Primary pump type		Fore Pump	Rough Pump	Fore Pump	Rough Pump	Fore Pump	Rough Pump
	Rotary vane pump	DS-202	DS-302	DS-202	DS-302	DS-202	DS-302
	Dry scroll pump	TS-320	TS-320 or TS-620	TS-320	TS-320	TS-320	TS-320 or TS-620
Inlet flange				11/8" Co	mpression		
Calibration routine		Automatic					
Background suppression		Automatic and Auto Zero < Zero					
Automatic cycle sequencing			Standar	d, Adjustable	rough and te	st times	
Leak indication			50 segm	ent bar grap	h w/ exponen	t display	
Leak units displayed					:/second		
Ranging			Αι	utomatic/Ma	nual (selectabl	e)	
Set points					e (1)		
Communications interface (plug or connector), optional		Serial RS-232 Interface @9600 baud (DB-25S)					
Remote IO (plug)		Parallel	Interface, (DB-				ıt (5-24V)
Analog Leak Rate Output (plug)			0-10V, Lir	near or Logar	rithmic 2V/dec	ade (plug)	
Audio Alarm					'es		
Recommended Ambient Operating Temperature		10 to 38 °C (50 to 100 °F)					
Power Requirements		115VAC, 20A, 60/50Hz or 230 VAC, 10A 60/50 Hz					
Weight (Base Unit)		232 kgs (510 lbs)					
Remote Control		Optional, Remote control Interface (DE-09S)					
Conformance Standards		Meets applicable CE, UL, CSA requirements					

Ordering Information								
Configuration	Part Number							
	Base	xxx = Rough Pump	x = Sensitivity	xxx = Voltage				
947 with Rotary Vane Pumps DS-202 Fore pump	L94720xxxxxxx	• 300 = DS-302	T = Standard Sensitivity	• 120 • 220				
947 with Dry Scroll Pumps TS-320 Fore pump	D94735xxxxxxx	● 350 = TS-320 ● 550 = TS-620	• M = High Sensitivity					
948 with Rotary Vane Pumps DS-202 Fore pump	L94820xxxxxxx	• 300 = DS-302						
960 with Rotary Vane Pumps DS-202 Fore pump	L96020xxxxxxx	• 300 = DS-302	T = Standard Sensitivity					
960 with Dry Scroll Pumps TS-320 Fore pump	D96035xxxxxxx	● 350 = TS-320 ● 550 = TS-620						

Description	Chinning Maight L. (U.)	Dauf Numbau
Description	Shipping Weight kg (lbs)	Part Number
Accessories and Options		
Atmospheric gross leak option (factory installed)		L6927301
Serial and parallel I/O (factory installed)		L9596301
Remote control/display unit with 25' cord, (serial and parallel I/O required)	0.5 (1)	L9558302
Sniffer probe, 11/8" compression fitting, 10' hose	1.8 (4)	K9565301
Sniffer probe, 11/8" compression fitting, 25' hose	1.8 (4)	K9565302
Calibrated leak, external, 11/8 compression, 10-7 range (NIST-traceable)	1.8 (4)	F8473301
Calibrated leak, external, 11/8 compression, 10-8 range (NIST-traceable)	1.8 (4)	F8473302
Tuning leak	0.9 (7)	K1608301
Throttle valve	1.8 (4)	626603345
Spectrometer tube cleaning kit	1.4 (3)	670029096
Universal test fixture, 11/8" compression port, NW25	4.5 (10)	L6241301
Replacement Parts		
O-ring kit for 947, 948, and 960	0.5 (1)	L5669801
lon source, thoriated-iridium	0.1 (0.2)	82850302
Collector Assembly	0.5 (1)	K9740301
Manual	1.4 (3)	699909947

