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Find the *Agilent / Varian 990 CLD* at our website: ***Click HERE***

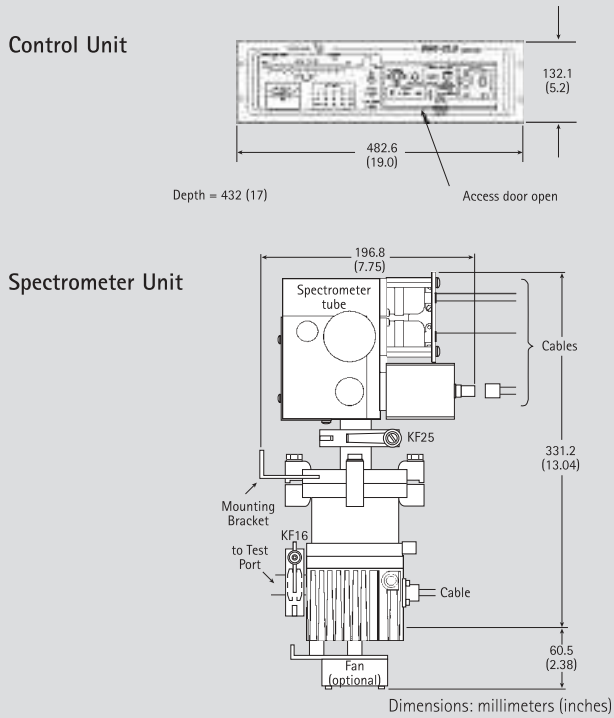
990CLD



The Varian 990CLD Component Leak Detector is a modular leak-testing package that can be integrated into virtually any testing system. The electronics module of the 990 can be separated from the sensing module and vacuum pumps by as much as 15-feet, permitting a high degree of flexibility in your system design.

Every 990CLD offers a variety of electronic interfaces making the setup of communications with a host computer, or Programmable Logic Controller (PLC), very convenient. This leak detector is an outstanding choice for precision leak detection in testing systems that incorporate helium leak testing.

Outline Drawing



Technical Specifications

High vacuum pump, turbo/drag pump	V70D	V70LP
Sensitivity ranges, *atm cc/sec**	10^{-4} to 10^{-8}	10^{-3} to 10^{-7}
Minimum detectable leak at 1000 ppm ambient helium, *atm cc/sec helium**	2 x 10^{-9}	2 x 10^{-8}
Maximum test port pressure, Torr	3	5
Response time for helium, *seconds*	<0.5	
Typical recovery time, *seconds*	< 3 seconds to recover from a 10^{-3} range leak	
Calibration routine	Manual	
Background suppression	Manual	
Leak indication	50 segment bar graph w/exponent display	
Leak units displayed	atm cc/seconds	
Ranging	Manual	
Set points	4 independent Form C dry contact leak rate set point: 250 VAC, 28 VDC, 6 amps, 180 watts inductive load, 1.8 KVA resistive load	
Remote IO (plug)	Opto-22 Input for optional remote filament on/off and display range control; Field-changeable 2.5-28 VDC, 35-60 VDC, 120 VAC, or 220 VAC; Form C dry contact outputs for pressure threshold, filament status, turbo status.	
Analog leak rate output (plug)	0-10 VDC, Linear or logarithmic 2-3 VDC/decade (plug)	
Electronic response time	<0.5 seconds	
Power requirements	90-130 VAC or 180-240 VAC	
Weight (Base Unit), *kgs (lbs)*	Control unit 11 (24) Spectrometer unit 7 (15)	

* Specifications derived using a DS-302 Rotary Vane Pump with approximately three feet of one-inch diameter tube

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Ordering Information

Configuration	Part Number		
	Base	xx = Sensitivity	xxx = Voltage
990 CLD Component Leak Detector Controller, Spectrometer Tube, and High Vacuum Pump included	L9900000xxxxx	• MT = High Sensitivity • LP = Standard Sensitivity	• 120 • 220

Description	Shipping Weight kg (lbs)	Part Number
Cables		
Interconnecting cable, 5'	0.9 (2)	L9023305
Interconnecting cable, 10'	1.4 (3)	L9023310
Interconnecting cable, 15'	1.8 (4)	L9023315
Accessories and Options		
OPTO-22 module, 120 VAC	1.4 (3)	649150005
OPTO-22 module, 35-60 VDC	1.4 (3)	649150010
OPTO-22 module, 2.5 – 28 VDC	1.4 (3)	649150015
OPTO-22 module, 200 VAC	1.4 (3)	649150020
Tuning leak/ throttle valve, NW25	2.3 (5)	R1947301
Spectrometer tube cleaning kit	1.4 (3)	670029096
Universal test fixture, NW25	4.5 (10)	L6241306
Manual	1.4 (3)	699909690

The Varian 990 Component Leak Detector includes the spectrometer tube, controller unit, and high-vacuum pump. Order interconnection cables and OPTO modules separately.

For information on Service, refer to page 38.

For information on additional accessories and options, refer to pages 30 through 35.

For information on roughing pumps, refer to page 19.

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