

Specification of Helium Leak Detector System & Accessories

Helium Leak Detector – Qty (01)

Specification

- Rotary Vane Pump speed shall be not less than $14 \text{ m}^3/\text{hr.}$
- Sensitivity of equipment shall range from $5 \times 10^{-12} \text{ atm cc/sec.}$
- Minimum detectable leak should be $5 \times 10^{-12} \text{ m bar} / 5 \times 10^{-13} \text{ Pa m}^3/\text{sec} / 5 \times 10^{-12} \text{ atm cc/sec.}$
- Maximum test port pressure shall be 13 m bar.
- Response time shall be $< 0.5 \text{ sec.}$
- Helium Pumping speed at Test port 1.8 liter/ sec.
- Automated Cycling i.e. programmable rough time, test time, reject set points.
- Calibration shall be Automated or Manual (internal or external).
- Set Point standard shall be Audio, Pressure, Leak Rate.

Features:

- Totally automatic single button operation
- Fully automated tuning and calibration using internal and external calibrated leaks
- A bar graph (linear and log) indicator displays leak rates automatically, alphanumeric indication on LCD display.
- Selectable mode i.e. Zero Control for background elimination by auto zero feature.
- Leak can trigger audible alarm whose frequency varies with size of leak and programmable audio threshold.
- Test pressure and spectrometric pressure with alphanumeric indication on LCD display.
- Microprocessor –controlled valve operation for automatic system cycling.
- Sensitivity optimized design, header mounted ion source with dual thoriated iridium filament, a high sensitivity wide dynamic range pre amplifier and vacuum gauge.
- Safety interlocks that completely protects the high vacuum system against pressure surge and power interruption

Test Leak

Helium Calibrated Leak 10^{-9} :Qty - 01

- Calibration leak 10^{-9} STD cc/sec range, reservoir permeation type, calibrated to traceable NIST standard. For use in calibrating sniffing type leak detector includes 1-1/8" test port adapter with isolation valve

Helium Calibrated Leak 10^{-10} : Qty - 01

- Calibration leak 10^{-10} STD cc/sec range reservoir permeation type, calibrated to traceable NIST standard. For use in calibrating sniffing type leak detector includes 1-1/8" test port adapter with isolation valve

Helium Calibrated Leak 10^{-11} : Qty - 01

- Calibration leak 10^{-10} STD cc/sec range reservoir permeation type, calibrated to traceable NIST standard. For use in calibrating sniffing type leak detector includes 1-1/8" test port adapter with isolation valve

Helium Calibrated Leak 10^{-12} : Qty - 01

- Calibration leak 10^{-10} STD cc/sec range reservoir permeation type, calibrated to traceable NIST standard. For use in calibrating sniffing type leak detector includes 1-1/8" test port adapter with isolation valve

Accessories

Power Sniffer Probes: Qty - 01 each

- a) Hose length=10meter with fitting \approx 1 inch
- b) Hose length = 5 meter with fitting \approx 1inch

Flexible Sniffer straight Probes: Qty-01 each

- a) Hose length 5 meter with fitting \approx 1 inch
- b) Hose length 10 meter with fitting \approx 1inch

Harsh Environment straight probes: Qty-01 each

- a) Hose length 5 meter with fitting \approx 1 inch
- b) Hose length 10 meter with fitting \approx 1inch

Calibrated Leak Replacement: Qty - 01

Cleaning Kit for Equipment: Qty - 01

Additional Parts

- | | |
|--|--------|
| - Valve Block O Ring Kit | Qty-02 |
| - Seal Viton O-Ring, Size=1 inch | Qty-10 |
| - Plan Quick Clamps with Wing Nut, Size= 1inch | Qty-06 |
| - Replica Power sniffer Probe Tips | Qty-10 |
| - Throttle Value, Size= 1inch | Qty-01 |
| - Series Metal gasket Kit | Qty-01 |
| - Test Fixture Cable | Qty-01 |
| - Leak Test Data Wizard Software | Qty-01 |
| - Hot Ion Source Kit | Qty-01 |
| - Wireless Remote, Base Unit | Qty-01 |
| - Wireless Remote Controlled Assembly | Qty-01 |
| - Metal gasket Kit | Qty-01 |

Terms & Conditions:

All necessary accessories required for operation/testing must be included in quotation

All optional accessories may be specified in quotation

Operating /Maintenance manual in English

Brand: Varian, Leybold or Equivalent

Origin: USA, Western Europe (Local and Chinese origin are not acceptable)

Make: Any

CHECK LIST

Please carefully fill all the entries by either encircling "YES" or "No" and mention specifications of offered components when "No" is encircled. Use separate sheet if required. Duly filled check list must be submitted along with offer.

Helium Leak Detector System

Machine Specification:			Encircle		Offered Specs (Where "No" is encircled)
			Yes	No	
1	Rotary Vane Pump speed	14 cubic meter/hr	Yes	No	
2	Sensitivity of Equipment	5×10^{-12} atm cc/sec	Yes	No	
3	Test Port Pressure	13 m bar	Yes	No	
4	Response time	< 0.5 sec	Yes	No	
5	Helium Pumping Speed at Test Port	1.8 liter /sec	Yes	No	
6	Calibration	Automated (Internal and External)	Yes	No	
7	Calibration	Manual (Internal and External)	Yes	No	
8	Calibration	Both (Internal and External)	Yes	No	
9	Set point Standard	Audio, Pressure, Leak Rate	Yes	No	
10	Bar Graph	Linear and Log	Yes	No	
11	Helium Calibrated Leak	10^{-5} 10^{-10} 10^{-11} 10^{-12} STD cc/sec	Yes	No	
12	Power Sniffer probes	Hose Length 10 m and 4.5 m with fitting 1 inch	Yes	No	
13	Operation	Single Button	Yes	No	
14	Tuning and calibration	Fully automated	Yes	No	
15	Cleaning Kit	Equipment cleaning Kit	Yes	No	
16	Addition Parts		Yes	No	
17	Accessories	Separate prices of necessary accessories required for Operation /Testing (If any)	Yes	No	
18	Manuals	Operating and Maintenance Manual in English language	Yes	No	
19	Brand	Varian, Lebold or Equivalent	Yes	No	
20	Origin	USA/ Western European	Yes	No	