

HELIUM SNIFFER PROBES

User Manual



Description

HELIUM SNIFFER PROBE SPECIFICATIONS				
P/N	Leak Detector Manufacturer	Lgth	Connection Type	Flow
LSP-01A-10	TITAN VERSA, Alcatel, Pfeiffer	10'	STÄUBLI-QD	60 SCCM
LSP-01A-13	TITAN VERSA, Alcatel, Pfeiffer	13'	STÄUBLI-QD	
LSP-01A-33	TITAN VERSA, Alcatel, Pfeiffer	33'	STÄUBLI-QD	
LSP-01N-10	TITANTEST, Inficon	10'	RECTUS-QD	30 SCCM
LSP-01N-13	TITANTEST, Inficon	13'	RECTUS-QD	
LSP-01N-33	TITANTEST, Inficon	33'	RECTUS-QD	
LSP-01HS-1125-10	Varian	10'	1-1/8"	
LSP-01HS-1125-33	Varian	33'	1-1/8"	
LSP-01HS-NW40-10	Any as required	10'	NW40	
LSP-01HS-NW40-33	Any as required	33'	NW40	
LSP-01HS-NW25-10	Leybold, any as required	10'	NW25	
LSP-01HS-NW25-33	Leybold, any as required	33'	NW25	

All LACO models of sniffer probes include the following items:

- Sniffer probe assembly
- Spare sniffer tip filter assembly
- User manual

Safety

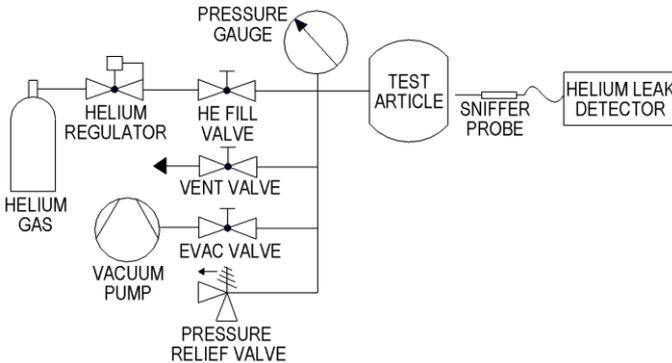


WARNING

- Do not inhale helium gas. Helium is non-toxic but may cause suffocation. Lack of enough oxygen can cause serious injury or death. Refer to Material Safety Data Sheet
- When filling test article with helium ensure all equipment is rated for the proper pressure. Do not over pressurize above rated maximum pressures

Installation

1. Connect sniffer probe to sniff port or inlet test port on your leak detector. For more information on installation, refer to the TITAN VERSA Operations and Maintenance Manual (SMT-07-1037).
2. LACO recommends calibrating the system in sniff mode with an external sniff calibrated leak (see Accessories table for options).
3. Refer to schematic below for sniffer probe installation.



Operation

1. Press start cycle button leak detector to go into a sniff test cycle.
2. Pressurize test object with helium gas.
3. Place probe tip next to all leak points in test object. Move probe slowly over likely leak locations. While testing, do not plug or contaminate the sniffer probe tip.

Sniffing Best Practice

- When using a helium sniffer probe to test pressurized components or system, ensure there are no gross leaks in the system prior to pressurizing. Gross leaks will allow the surrounding air (or background) to become contaminated with helium, which lowers the sensitivity of the leak test
- When venting helium from a pressurized test part, do not vent in the same area where the testing is performed. This will contaminate the surrounding air with helium
- When the ambient air is contaminated with helium, a large fan can be used to exhaust the test area and provide clean air
- When sniffing a part with multiple potential leak locations, always begin sniffing near the bottom of the part and work towards the top. It may be necessary to repair leaks that are found before proceeding. Helium escaping from the part will rise and can give a misleading leak location

Maintenance

HELIUM SNIFFER SPARE PARTS	
P/N	Description
LMSA92097	Tip filter assembly
LST-60	Alcatel version sniffer tip assembly LSP-01A-xx
LST-30	Non-Alcatel sniffer tip assembly LSP0-1N-xx or LSP-01HS-xx

Sniffer Tip Filter Assembly

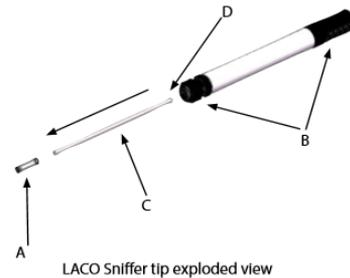
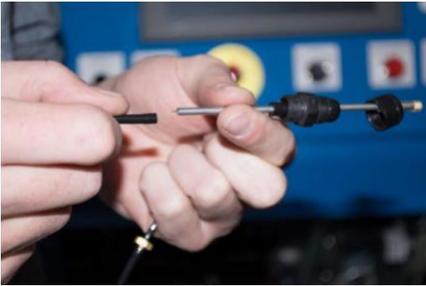
LACO recommends replacing the sniffer tip filter assembly (LMSA92097) in the following conditions.

- Every 400 hours of use (or more frequently in more demanding applications)
- If the tip assembly becomes plugged or dirty

Remove the clear tube and filter assembly from the tip. Replace with a spare unit supplied with the sniffer probe. Slide the clear tube over the stainless steel tube so the filter rests at the end of the probe tip. If probe is still clogged, see sniffer tip replacement procedure.

Sniffer Tip Replacement

1. Often, a clogged tip can be fixed by running compressed air or nitrogen through the sniffer inlet connection. Blow 10-40 psi of gas through the probe for 20-30 seconds. Retest probe.
2. If clog is still present, contact LACO for the correct leak tip assembly for your leak detector, P/N LST-60 for Pfeiffer / LACO leak detector or P/N LST-30 for all other brands. See Step 3 for installation instructions.
3. To install a sniffer tip:
 - a. (A) Remove filter tip assembly and (B) loosen both cord grips and (C) slide out main sniffing line.
 - b. (D) While holding metal tube, remove urethane tubing from metal tube. Install new Filter tip assembly into urethane tubing (small pin end into urethane tubing). Take care to not damage pin assembly.
 - c. Reinstall the sniffing line into the handle assembly and retighten the cord grip. Retest entire assembly for full functionality.



Accessories

P/N	Description
LMSA0193	Plastic carry case (13" W x 7" H), black
LMSA0194	Large plastic carry case (16" W x 9" H), black
LHREG01	Regulator, CGA580 connection, 0-100 psi output, 1/4" tube
CM51L-5102DA0/1	Sniff calibrated leak standard, 1e-5. Other versions available.
LMGC-150-02	Gas charge manifold assembly, 150 psig, 1/4" OD tubing