



# XL3000flex Helium and Hydrogen Leak Detector

Empowering Optimized Leak Detection



# Production quality redefined

**The XL3000flex is an extremely precise, adaptable, high speed sniffer leak detector for the refrigeration, air conditioning and automotive industries.**

The INFICON high-flow technology with 3000 sccm in conjunction with the robust mass spectrometer guarantees the highest level of measurement sensitivity even over large distances. This ensures that leaks can be detected reliably even when the device is used imprecisely and even when leaks are difficult to access. In conjunction with the wide-ranging communication interfaces designed to industry standards, the XL3000flex is ideal for use in robot applications.

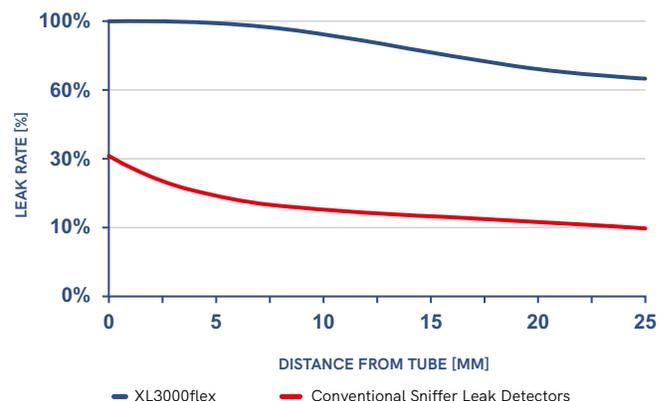
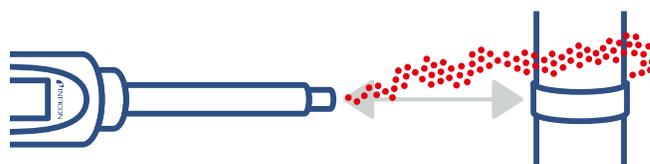
A further advantage is the sniffer leak detector's high level of availability. Market leading detection systems and probe solutions from INFICON have an active installed base of thousands of units. These units have accrued millions of hours of run time in the most demanding product environments imaginable with outstanding results. Let our experience work for you to guarantee maximum reliability for the production process.

The mass spectrometer's high sensitivity also makes it possible to optimize your tracer gas selection and test conditions to provide the highest measurement certainty and fastest throughput while offering the lowest operating cost.

## QUALITY THAT CAN BE MEASURED

The INFICON XL3000flex was compared with a conventional Sniffer Leak Detector. The test was set up to simulate an inaccessible leak on the rear of a tube connection.

The comparison clearly proved the superiority of the INFICON XL3000flex with regard to locating the leak. Even the smallest amounts of tracer gas can be reliably detected.



## ADVANTAGES AT A GLANCE

### Exceptional reliability

Leaks are detected reliably even when the device is used imprecisely - through the INFICON high-flow Sniffer Leak Detector with 3000 sccm

### High level of plant availability

Thanks to the highly sensitive mass spectrometer system, downtime due to sensor contamination is virtually ruled out even at high tracer gas concentration in the production environment

### Maximum production reliability

Our high-quality stainless-steel mass spectrometer sets new quality standards - with a 3-year warranty on the cathodes

### Minimum running costs

It is possible to reduce the helium concentration or use cheaper forming gas - thanks to the highly sensitive stainless-steel mass spectrometer



### HIGH FLOW WITH 3000 SCCM

- Unique flow rate that is up to 50 times higher than in conventional devices
- Leak detection at inaccessible locations
- Faster and less operator-dependent sniffer leak detection
- Highest level of measurement sensitivity even over large distances



### LOW FLOW WITH 300 SCCM

- Optimum flow rate of 300 sccm for precise localization of escaping tracer gas at the leakage point
- Changeover from high flow to low flow at the push of a button



### MASS SPECTROMETER SYSTEM

- Enables leakage rates as low as  $2 \times 10^{-7}$  mbar l/s to be detected
- Downtime due to sensor contamination is virtually ruled out
- Three-year warranty on the ion source speaks for itself
- Simple changeover from helium to hydrogen possible to reduce running costs





### SNIFFER PROBE

- The leakage rate is displayed on the ergonomically designed sniffer probe
- The user can concentrate on the sniffing process and monitor the leakage rate simultaneously



### READY FOR ROBOTIC

- Wide range of communication interfaces enables connection to higher-level PLC systems and simple robot integration
- Highest level of measurement sensitivity for high robot speed
- Industry 4.0 ready



### INTERFACES

- External controller, e.g. for robot applications
- Easily gather statistics
- Connection to higher-level quality systems
- RS232, RS485, USB and fieldbus systems

### TOUCHSCREEN DISPLAY

- Easily evaluate and save measurement results through simple operation
- Intuitive user interface with touchscreen
- Modern menu structure
- Data export via USB flash drive



Premium Quality  
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made in Germany



## The best choice for high performance

INFICON offers the world's leading technology in the field of measuring and sensor technology as well as process control for sophisticated vacuum processes in highly specialized industries. INFICON products for gas leak detection are used, in particular, in the refrigeration and air conditioning sectors, in semiconductor manufacturing and in automobile production.

With INFICON, you have a competent partner at your side who is familiar with the challenges of your industry and, working together with you, finds the best solution to meet your requirements. INFICON specialists at numerous branches worldwide provide top service and the broadest possible support. State-of-the-art production facilities are located in the USA, Europe and Asia.

## SPECIFICATIONS

Lowest detectable leakage rate for helium/hydrogen	
High flow	$2 \times 10^{-6}$ mbar l/s - $2 \times 10^{-7}$ mbar l/s
Low flow	
Gas flow	
High flow	3000 sccm
Low flow	300 sccm
Response time (high flow and low flow)	
	<1 s
Ion source	
	Two long-life yttria-coated iridium filaments
Run-up time	
	150 s
Measurable gases	
	Helium, hydrogen
Power	
	280 VA
Operating voltage	
	100-120 V (ac) 50/60 Hz - 230 V (ac) 50/60 Hz
Main fuse	
	2 x T6, 3 A 250 V
Interfaces	
	USB With IO1000 accessories: RS232, freely configurable digital in- and outputs, analog output
	With BM1000 accessories: fieldbus interfaces PROFIBUS, PROFINET, DeviceNet, EtherNet/IP

## ORDERING INFORMATION

PRODUCT	CAT. NO.
XL3000flex	520-200
Sniffer line	
SL3000XL-3: 3 m long	521-011
SL3000XL-5: 5 m long	521-012
SL3000XL-10: 10 m long	521-013
SL3000XL-15: 15 m long	521-014
Adapter for third-party sniffer line	521-015
Oil/water protection tip for SL3000XL	521-016
Filter for oil/water protection tip	521-017
Sniffer tip	
ST 312XL, 120 mm long, rigid	521-018
FT 312XL, 120 mm long, flexible	521-019
ST 385XL, 385 mm long, rigid	521-020
FT 385XL, 385 mm long, flexible	521-021
FT 250XL, 250 mm long, flexible	521-022
Special-filter cartridge for SL3000XL (25 off)	521-023
BM1000 bus module	
PROFIBUS	560-315
PROFINET	560-316
DeviceNet	560-317
EtherNet/IP	560-318
IO1000 module	560-310
External calibrated leak with 100% H <sub>2</sub> (leak rate of calibrated leak corresponds to (95/5) forming gas leak rate)	12322
External helium calibrated leak	12237

