



XL3000flex Helium and Hydrogen Leak Detector

Empowering Optimized Leak Detection

INFICON

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.

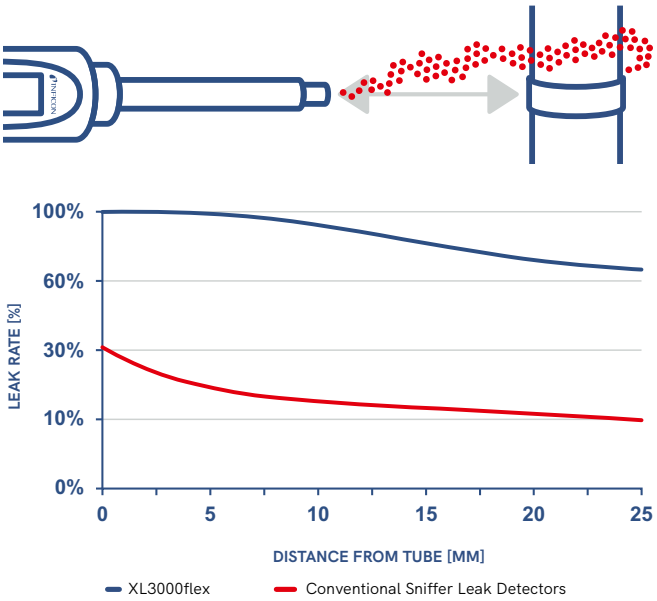
A further advantage is the sniffer leak detector's high level of availability. Market leading detection systems and probe solutions from INFICON have an active installed base of thousands of units. These units have accrued millions of hours of run time in the most demanding product environments imaginable 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 tracergas 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

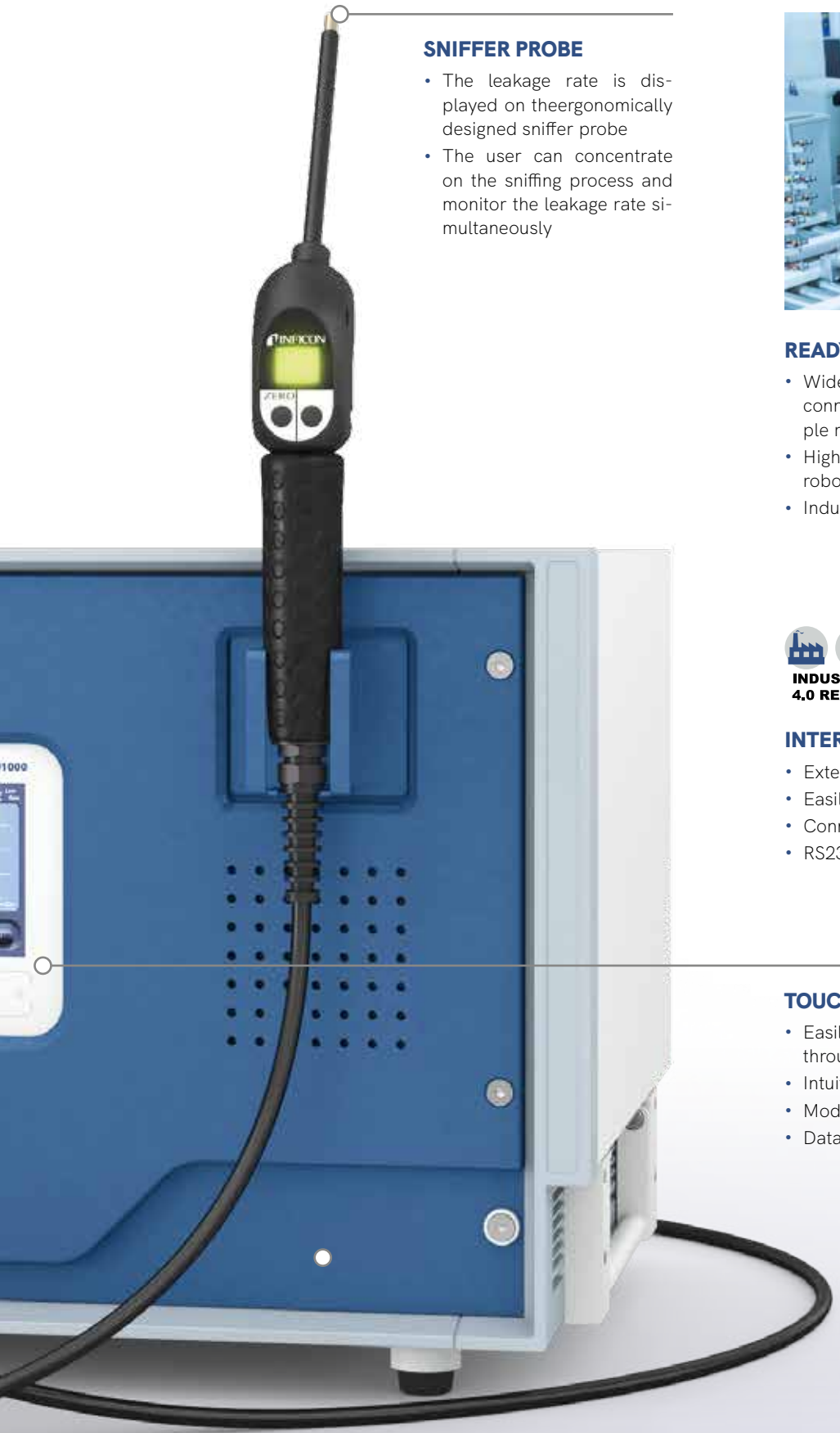
- Optimum flow rate of 300 sccm for precise localization of escaping tracer gas at the leakage point
- Changeover from high flow to low flow at the push of a button



MASS SPECTROMETER SYSTEM

- Enables leakage rates as low as 2 × 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 theergonomically 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

R4R READY

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
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 Low flow	2×10^{-6} mbar l / s - 2×10^{-7} mbar l / s
Gas flow	
High flow Low flow	3000 sccm 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 SL3000XL-5: 5 m long SL3000XL-10: 10 m long SL3000XL-15: 15 m long	521-011 521-012 521-013 521-014
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 FT 312XL, 120 mm long, flexible ST 385XL, 385 mm long, rigid FT 385XL, 385 mm long, flexible FT 250XL, 250 mm long, flexible	521-018 521-019 521-020 521-021 521-022
Special-filter cartridge for SL3000XL (25 off)	521-023
BM1000 bus module	
PROFIBUS PROFINET DeviceNet EtherNet / IP	560-315 560-316 560-317 560-318
IO1000 module	560-310
External calibrated leak with 100% H_2 (leak rate of calibrated leak corresponds to (95/5) forming gas leak rate)	12322
External helium calibrated leak	12237

INFICON Instruments for Intelligent Control®

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Due to our continuing program of product improvements, specifications are subject to change without notice.
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