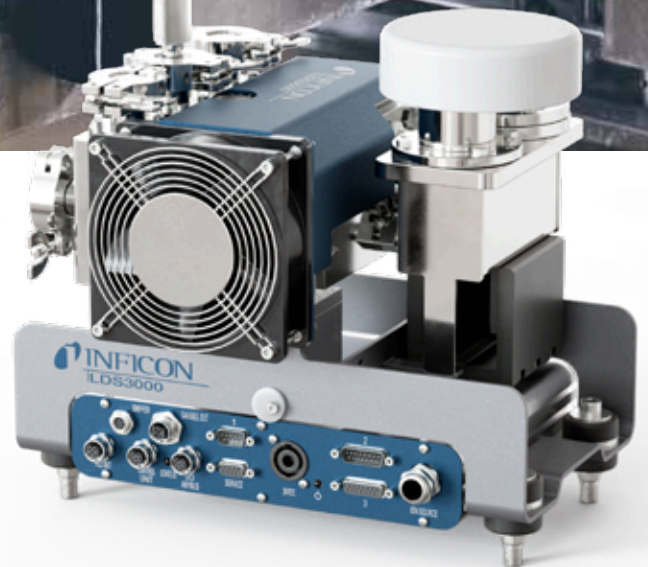




LDS3000 helium and hydrogen leak detector

Maximum performance, minimum costs thanks to the revolutionary EcoBoost function



INFICON
Inspired by visions. Proven by success.

LDS3000: Unsurpassed performance and innovation in the field of leak detection

Since its market launch, the LDS3000 has demonstrated unsurpassed performance in terms of accuracy, reproducibility of measurement results and speed of leak detection. The LDS3000 has made a name for itself as a benchmark in system leak detection and this makes it the first choice worldwide in all industries, especially among automotive and battery manufacturers, as well as in refrigeration and air conditioning technology.

Its compact design and wide range of modern fieldbus systems make it easy to integrate into your system.

For all applications that can be helium-critical, we are now able to offer the BEST solution: With the brand new EcoBoost function, helium consumption for measuring processes can be reduced by up to 90%! EcoBoost can be retrofitted easily and free of charge or is included as standard in the new generation LDS3000.



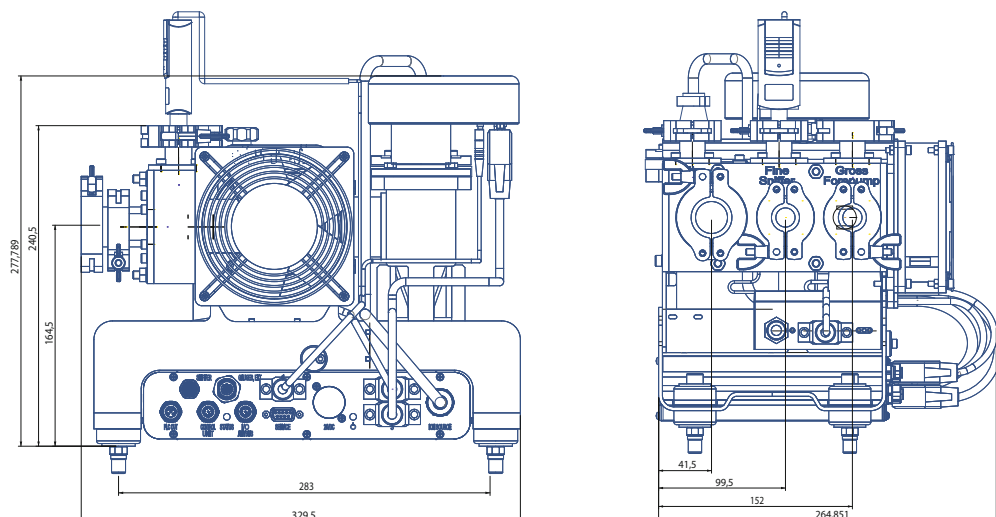
Save helium, reduce costs:

The revolutionary EcoBoost function for the LDS3000

Helium is still the preferred tracer gas for leak detection when it comes to small leak rates with absolute precision and reproducibility. Its scarce availability and the associated costs make its economical use essential. Thanks to the innovative and patented EcoBoost function, the LDS3000 drastically reduces helium consumption and lowers the ongoing operating costs for leak detection. With potential savings of up to 90%, EcoBoost technology offers a cost-effective and sustainable solution.

YOUR BENEFITS AT A GLANCE

- ✓ Cost savings: The new and patented EcoBoost function makes it possible to save up to 90% of helium in the detection process. This reduces running costs and the investment costs of the instrument are amortized in a short time
- ✓ A compact design allows individual, customized integration into leak detection systems
- ✓ Quick and easy integration: Versatile communication options thanks to a wide range of analog and digital interfaces
- ✓ Process efficiency: Fast calibration of the LDS3000 within 20 seconds.

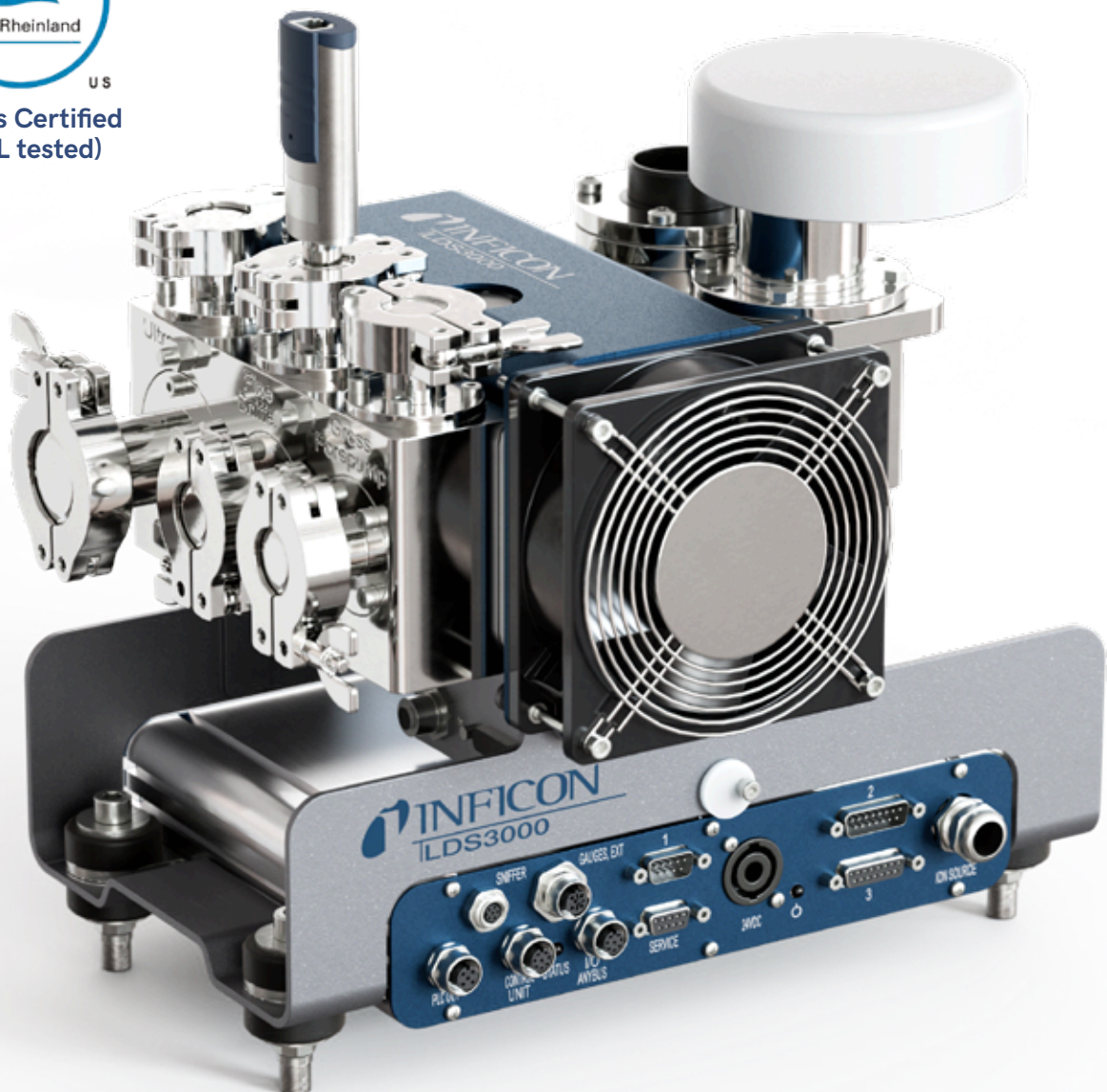


Find the smallest leaks, achieve maximum efficiency: LDS3000 and EcoBoost, an unbeatable duo

The LDS3000 can find even the smallest leaks and deliver a reliable measurement result. Thanks to its high performance and speed, it is ideal for high-throughput applications. The EcoBoost function further optimizes the performance of the LDS3000, saving up to 90% of helium compared to conventional measurement methods.



C US
cTÜVus Certified
(NRTL tested)



Integrate seamlessly, achieve maximum flexibility: The LDS3000 adapts to your requirements

The compact design of the LDS3000 facilitates integration into existing systems. With a large number of interfaces, the LDS3000 offers versatile communication options that ensure seamless integration into the overall system. INFICON also offers the CU1000 control unit for simple and convenient operation. With INFICON as a partner, the smooth integration and optimum performance of your leak detection system is guaranteed.

Discover the LDS3000 with EcoBoost and benefit from its impressive functions. Contact us for more information on the savings potential of the EcoBoost function and to arrange a demo.



CU1000 control unit



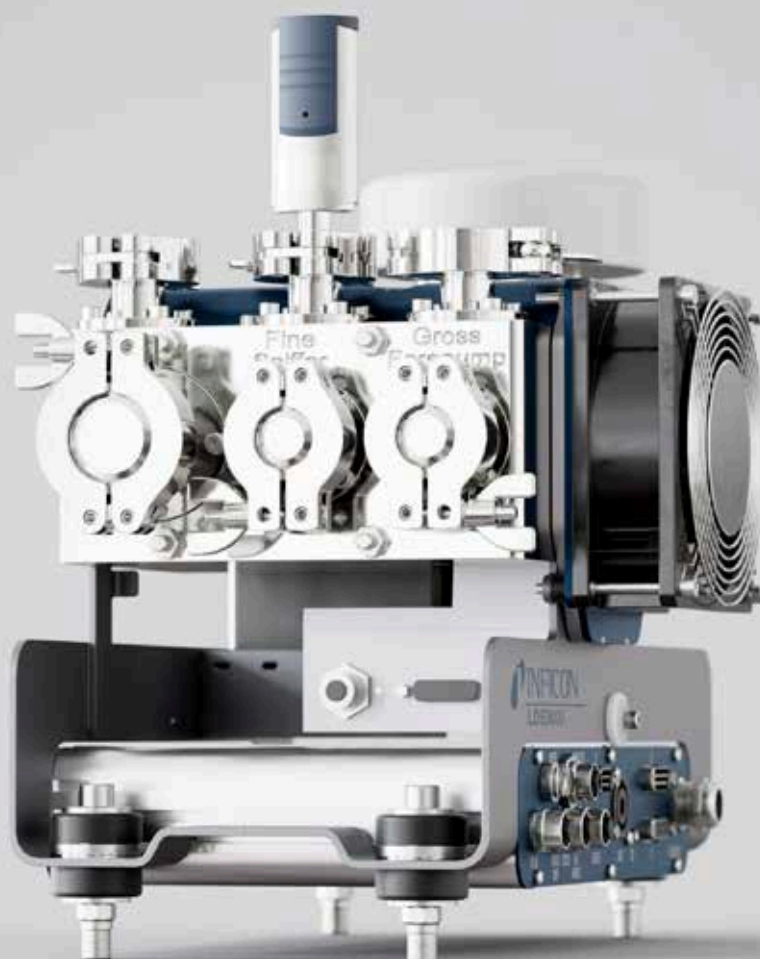
**Calibrated standard calibration
leak and sniffer line up to 10 m**



BM1000 BUS module



I/O1000 module





Performance you can depend on

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

With INFICON, you have a competent service representative at your side who knows the challenges of your industry and who, together with you, will find the optimal solution for your requirements. INFICON ensures the best service and the greatest possible support for your company through our specialized experts in numerous branch offices worldwide. Our state-of-the-art production facilities are located in the USA, Europe and Asia.

TECHNICAL DATA

Minimum detectable leak rate of helium:	
"Ultra" mode	$\leq 1 \cdot 10^{-11}$ mbar l/s (>5 l/s helium pumping speed)
"Fine" mode	$\leq 5 \cdot 10^{-11}$ mbar l/s (1.7 l/s helium pumping speed)
"Gross" mode	$\leq 1 \cdot 10^{-9}$ mbar l/s
"Sniffer" mode	$\leq 1 \cdot 10^{-7}$ mbar l/s
Units of measurement (options)	mbar l/s, Pa m ³ /s, atm cc/s, g/a, ppm
Maximum permissible inlet pressure:	
"Gross" mode	18 mbar
"Fine" mode	0.9 mbar
"Ultra" mode	0.2 mbar
Response time	< 1 s
Ion source	2 yttrium/iridium long-life cathodes (3 year warranty)
Digital inputs/outputs	10 inputs, 8 outputs (when used with I/O1000 module)
Control input	PLC-compatible (max. 35 V)
Lin/log recorder output	0 - 10 V
Serial interface	RS232, RS485 or field bus systems
Dimensions (L x W x H)	330 x 240 x 280 mm
Ambient temperature (operation)	10 - 45°C
Warranty	2 years (3 years on ion source)

ORDERING INFORMATION

BASE UNITS

PRODUCT	CAT.-NO.
LDS3000, base unit	560-300
I/O1000 module (input/output module)	560-310
BM1000 bus module (Profibus)	560-315
Other bus modules upon request	
Data cable (MSB-I/O1000)	
2 m cable length	560-332
5 m cable length	560-335
10 m cable length	560-340
Connection cable for display unit	
5 m length	551-102
0.7 m length	551-103
OPTIONS	
CU1000 control unit	560-320
Snap-on mounting rail power supply unit 24 V, 10 A	560-324
Internal test leak TL7	560-323

An I/O1000 module or BM1000 module as well as a data cable are necessary for the operation of an LDS3000. The data cables can be used for connecting to an I/O1000 module or a BM1000 bus module and the CU1000 control unit.

PRODUCT	CAT.-NO.
Pump module (complete, incl. connection accessories)	14511
TRIVAC D 4 B, 1-phase motor 230 V, 50/60 Hz	
Sniffer valve	14520
Sniffer line, incl. handpiece, with 200 mm sniffer tip.	
3 m line length	14521
5 m line length	14522
10 m line length	14523
Replacement sniffer tip, 400 mm line length	200 04 642
XL Sniffer Adapter	560-319
Diaphragm pump (recommended to use with the XL Sniffer Adapter)	560-330
External test leak with 100 % H ₂ (leak rate of test leak corresponds to (95/5) forming gas leak rate)	12322
External helium test leak	12237
Sniffer lines to use in combination with the XL Sniffer Adapter	
SL3000XL-3, 3 m line length	521-011
SL3000XL-5, 5 m line length	521-012
SL3000XL-10, 10 m line length	521-013
SL3000XL-15, 15 m line length	521-014



ISO 14001
ISO 9001



INNOVATION THROUGH PROVEN, PATENTED TECHNOLOGY

At INFICON, we know that technology leadership is not possible without innovation leadership. That is why we develop and implement pioneering solutions that enable our customers to master the future challenges of their industry with confidence.



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