

UL3000Fab(ULTRA)

Mobile Helium Leak Detector
ULTRATEST® Sensor Technology

Progress meets experience



 **INFICON**
Inspired by visions. Proven by success.

Always one step ahead— new generation of leak detector

INFICON leak detection has a long history setting market standards in performance and ease of use. The UL3000 Fab offers the highest possible speed and optimal user-friendliness in leak test today. The UL3000 Fab was specifically developed for the specialized demands of semiconductor manufacturing, like leak checking of semiconductor and display tools, including subcomponents.

ADVANTAGES AT A GLANCE

- Save Time with I·CAL software algorithm for fast measurements in the range of 10^{-9} to 10^{-12} mbar l/s
- Most efficient leak checking using I·ZERO 2.0 with improved intelligent function for fast background suppression while maintaining high measurement sensitivity
- Applicable for vacuum and sniffer leak search
- Minimize leak checking efforts through quick evacuation and response time
- Time saved by easy maneuverability through slim design
- Low total cost of ownership (TCO) enabled by robust ion source (3 year warranty) and counterflow vacuum system
- Easy to use, operator-guided HMI with full color high resolution rotatable display

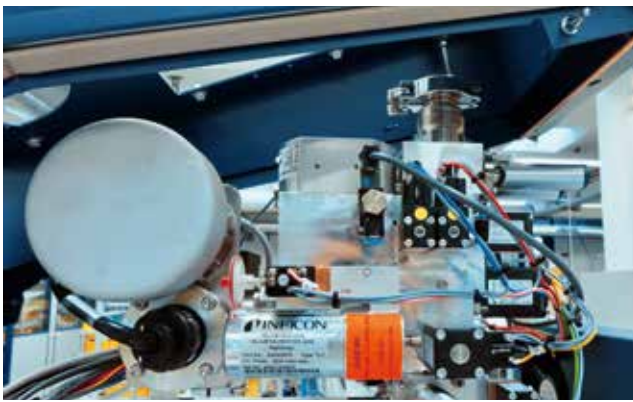
ADDITIONAL ADVANTAGES FOR UL3000 FAB ULTRA

- Start leak checking earlier as HYDRO·S software eliminates the water vapor background, making it possible to quickly reach sensitive measurement ranges
- Faster pump down (evacuation) times due to higher air pumping speed
- Lower TCO due to maintenance free roots roughing pump



EASY OPERATION, ANALYSIS AND STORAGE OF MEASUREMENT RESULTS

- ▣ Intuitive user guidance with touch display
- ▣ Modern menu structure
- ▣ Rotatable full color high resolution display
- ▣ Remote control by mobile device via Wi-Fi
- ▣ Data storage capability
- ▣ Data export using USB stick (access controlled)



LOW OPERATIONAL AND MAINTENANCE COSTS

Low-maintenance despite long service life thanks to:

- ▣ Robust vacuum system
- ▣ Ruggedized ion source with 3-year warranty



OPTIMAL ACCESS TO APPLICATION AREAS

- ▣ Small and ruggedized design for stability and optimal mobility
- ▣ Easy handling with low center of gravity
- ▣ Big wheels easily overcome obstacles



ULTRATEST SENSOR TECHNOLOGY

- ▣ 180° mass spectrometer
- ▣ All components made of stainless steel
- ▣ Ruggedized ion source with 3 year warranty
- ▣ Pre-amplifier with highest sensitivity in industry

TYPICAL APPLICATIONS

- ▣ INFICON leak detectors are used daily in all major semiconductor fabs
- ▣ Various Process tools:
Etch, CVD, PVD, Furnace, Implant, MOCVD, Solar, FPD, etc.
- ▣ Quick confirmation of tool integrity and pinpoint leaks to be fixed after tool maintenance
- ▣ Vacuum lines and pumps in sub fab
- ▣ Gas cabinets and complex gas delivery lines
- ▣ Fab facilities and abatement



ACCESSORIES AVAILABLE RIGHT ON THE DEVICE

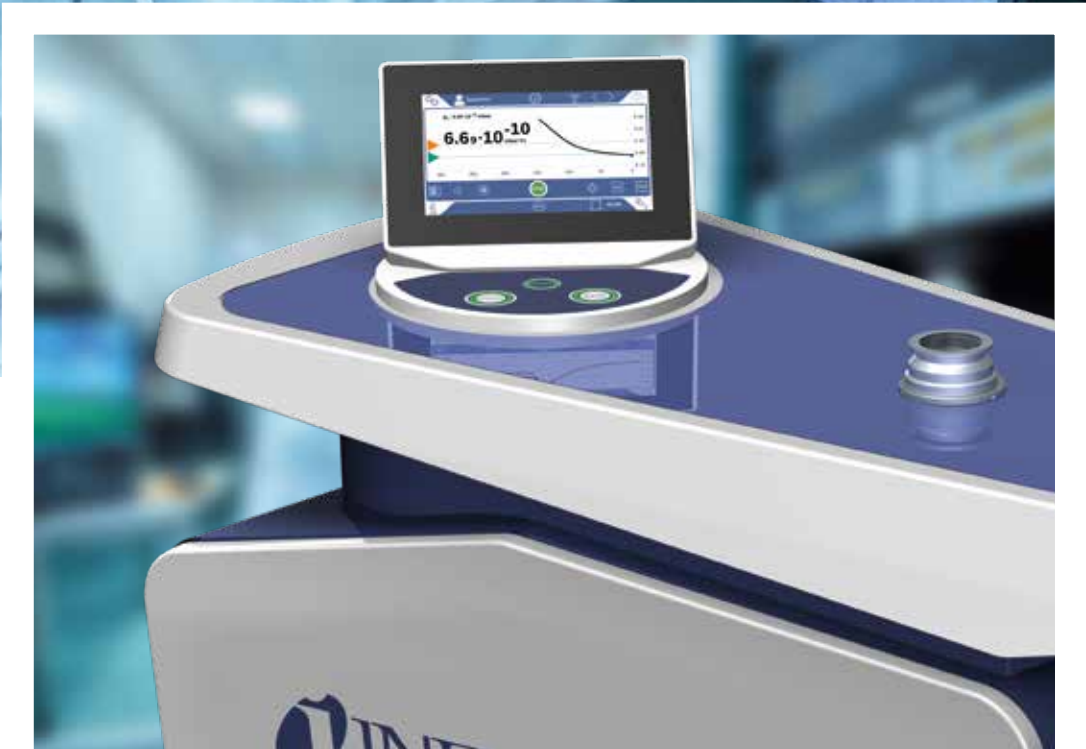
- ▣ Helium bottle holder on the leak detector
- ▣ Vacuum hose holder on the device
- ▣ Accessories in lockable compartment

EARLY DETECTION OF LARGE LEAKS

Big leaks can be detected significantly faster, as it is no longer necessary to wait for the system to be pumped down. This is possible thanks to:

- ▣ MASSIVE leak function (special pumping/valve block function)





Premium Quality
made in Germany



Your specialists for leak detection solutions

INFICON offers globally leading technologies in measurement and sensor technology, as well as process management for demanding vacuum processes in highly specialized industries. INFICON products for gas leak detection are used particularly in cooling and air conditioning technology, semiconductor manufacturing and automotive production.

With INFICON you have an expert consultant at your side who knows the challenges of your industry and works with you to find the right solutions for your needs. INFICON guarantees top service and maximum support with specialized experts at many branch offices around the world. Leading manufacturing facilities are located in the US and Europe, with branches in China, Denmark, France, Germany, Japan, Korea, Liechtenstein, Singapore, Switzerland, Taiwan, Great Britain and the US.

UL3000 FAB (ULTRA) MOBILE HELIUM LEAK DETECTOR

SPECIFICATIONS	UL3000 Fab	UL3000 Fab ULTRA
Min. detectable leak rate for helium (vacuum method)		<5 x 10 ⁻¹² mbar l/s
Min. detectable leak rate for helium (sniffer mode)		<5 x 10 ⁻⁸ mbar l/s
Max. inlet pressure (MASSIVE mode)		1000 mbar
Pumping speed during evacuation	>32 m ³ /h	>36 m ³ /h
Helium pumping speed (high sensitive mode ULTRA)		4 l/s
Response time		<1 s
Time until ready for operation		<3 min
Detectable masses (ULTRATEST Sensor Technology)		2, 3, 4 (H ₂ , ³ He, He)
Ion source	2 filaments, iridium/yttria oxide coated	
Test port	DN 25 KF	
Adjustable triggers	4	
Interface	2 x USB, Ethernet /LAN	
Supply voltage	100 to 240 V 50/60 Hz (AC)	
Power consumption	typ. 700 VA, max. 1500 VA	
Dimensions (L x W x H)	1050 x 472 x 987 mm (42 x 21 x 34 in.)	
Weight	118 kg	132 kg
Permissible ambient temperature range (during operation)	10 to 40°C	
Additional Features	-	HYDRO·S, separate sniffer line SL3000 port

ORDERING INFORMATION

PRODUCT	Cat. no.
UL3000 Fab 100 to 230 V 50/60 Hz	550-200
UL3000 Fab ULTRA 100 to 230 V 50/60 Hz (HYDRO·S, separate sniffer line SL3000 port)	550-260
ACCESSORIES	
RC1000 remote control, wired, incl. 4 m coiled cable	551-010
RC1000WL remote control, wireless, incl. wireless transmitter	551-015
Sniffer line SL200 incl. el. extension cable, 4 m length	551-210
Sniffer line SL3000 for UL3000 Fab ULTRA only, with integrated display	
3 m length	525-001
5 m length	525-002
10 m length	525-003
Bracket for SL3000	551-203
I/O1000 module (input / output module)	560-310
BM1000 Profibus module	560-315
BM1000 PROFINET I/O module	560-316
BM1000 Device Net module	560-317
BM1000 Ethernet/IP	560-318
Data cable (I/O1000 / BM1000 to UL3000 Fab ULTRA)	
0.5 m	560-334
2 m	560-332
5 m	560-335
10 m	560-340
Test Chamber TC1000	551-005
Helium bottle holder	551-201
Vacuum hose holder	551-202



cTÜVus certified assuring compliance with U.S. and Canadian National Standards



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