



Dry Helium Leak Detector UL1000 Fab

UL1000Fab

ULTRATEST™ Sensor Technology

A new Dimension in Stability and Responsiveness on Leaks

down to 10^{-12} atm/css

The INFICON UL1000 Fab Mobile Helium Leak Detector is specifically designed to meet the requirements of semiconductor applications. Making ease of use, leak detection efficiency and mobility within the fab environment system priorities, the UL1000 Fab provides an extremely fast leak rate response across all measurement ranges.

The UL1000 Fab offers never before seen leak rate stability down to $< 5 \times 10^{-12}$ atm cc/s through an optimised vacuum architecture that combines high helium pumping speed and high inlet pressures. Proprietary software, I-CAL (Intelligent Calculation Algorithm of Leak Rates), allows you to forget long response times in low leak rate ranges as the UL1000 Fab responds quickly to all leak rate ranges.

With the addition of the TC1000 Test Chamber accessory, the UL1000 Fab Helium Leak Detector provides easy, fast and accurate testing of hermetically sealed parts like IC packages, quartz crystals and laser diodes (according to MIL-STD 843, Method 1014).



FEATURES

- wide measurement range over 15 decades
- short pumpdown and response time
- mobile all-metal housing for added convenience with uncompromised maneuverability
- I-CAL to ensure fastest response time to leaks in all measurement ranges
- zero function with automatic integration time alignment for fast and reliable test results
- intelligent vacuum design with rugged scroll pump and multiple inlet turbomolecular pump that provides high helium pumping speed with high compression
- rotatable display and user interface allows simple and easy control and interaction with the unit
- self-protection features to protect the UL1000 Fab from helium and particle contamination
- auto purge cycle to ensure clean up and readiness for test
- software updates via email
- rugged mass spectrometer system with two filament ion source (3-year warranty) ensures long running time and low maintenance cost
- built-in test leak for internal calibration to ensure accurate test results

ORDERING INFORMATION

Type	Dry Helium Leak Detector UL1000 Fab
UL1000 Fab, 100/115 V AC, US plug	550-101A
UL1000 Fab, 230 V AC, EU plug	550-100A

SPECIFICATIONS

Type		Dry Helium Leak Detector UL1000 Fab
Min. detectable leak rate for Helium (Vacuum mode)	mbar•L/s	<5E-12
Min. detectable leak rate for Helium (Sniffer mode)	mbar•L/s	8E-8
Max. Inlet pressure GROSS mode	mbar	15
Max. Inlet pressure FINE mode	mbar	2
Max. Inlet pressure ULTRA mode	mbar	0.4
Pumping speed during evacuation	m ³ /h	25 at 50 Hz
Helium pumping speed GROSS mode	L/s	max. 8
Helium pumping speed FINE mode	L/s	7
Helium pumping speed ULTRA mode	L/s	2.5
Detectable masses		2,3,4 amu
Mass spectrometer Sector field		180°
Filaments ion source Iridium/Yttria coated		2
Calibrated built in leak	mbar•L/s	e-7
Test port	DN 25 KF	1
Adjustable triggers		2
Interface		RS 232
Chart recorder output	V	2 x10
IN/Outputs		PLC compatible
Permissible ambient temperature (during operation)	°C	+10.....+40
Type of protection		IP 20
Weight	kg	110
Weight	lb.	242
Dimensions (LxWxH)	mm	1068x525x850
Dimensions (LxWxH)	in.	42x21x33
Supply voltage	V (ac)	230 (+-10%)50Hz
Power consumption	VA	1100

ACCESSORIES

	Dry Helium Leak Detetector UL1000 Fab
ESD Mat	551-002
Extension cable for remote control RC1000, 8 m length	14022
Helium Bottle Holder	551-001
LeakWare for UL1000/5000-Family	14090
Remote Control RC1000C, wired, with 4m coiled cable	551-010
Remote Control RC1000WL, wireless, incl. wireless transmitter	551-015
SL200, Sniffer Probe for UL1000/5000/Modul1000, 4m length	14005
Toolbox, detachable, For UL1000	551-000
Wireless transmitter for RC1000WL	551-020



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