



Helium leak detector UL1000

ULTRATEST Technology™

Speed, Sensitivity and Reliability for Demanding Leak Detection Applications

The INFICON UL1000 Mobile Helium Leak Detector is designed to meet the most demanding industrial leak detection applications. Providing fast, accurate and repeatable test results, testing flexibility, and high sensitivity in a low maintenance design, the UL1000 is ready to tackle the toughest leak detection jobs industry can offer. The UL1000 is optimized to provide quick, accurate results in any application from the leak checking of large vessels and systems to high-cycle, repetitive component testing - 24 hours / 7 days a week - in the toughest industrial environments.

With the addition of the TC1000 Test Chamber accessory, the UL1000 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 (Intelligent Calculation Algorithm for Leak rates) to ensure fastest response time to leaks in all measurement ranges
- Zero function with automatic integration time alignment for fast and reliable leak test results
- Intelligent vacuum design with rugged roughing 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 from helium and particle contamination
- Auto purge cycle to ensure clean-up and readiness for leak test
- Software updates via email easily possible
- Rugged mass spectrometer system with two filament ion source (with 3-year warranty) ensures long running time and low maintenance costs
- Built-in test leak for internal calibration to ensure accurate test results
- Built-in software menu "Auto Leak Test" function to perform automatic testing of hermetically sealed components (optional TC1000 Test Chamber)

ORDERING INFORMATION

Type	UL1000 Helium Leak Detector
UL1000, 100 V AC, US mains plug	550-002A
UL1000, 115 V, US mains plug	550-001A
UL1000, 230 V, EU mains plug	550-000A

SPECIFICATIONS

Type		UL1000 Helium Leak Detector
Min. Detectable leak rate for helium (Vacuum mode)	mbar•L/s	<5E-12
Min. detectable leak rate for Helium (Sniffer mode)	mbar•L/s	5E-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	16 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 test leak	mbar•L/s	E-7
Adjustable triggers		2
Interface		RS232
Chart recorder output	V	2x10
In/Outputs		PLC compatible
Permissible ambient temperature (during operation)	°C	+10.....+40
Type of protection		IP 20
Weight	kg	110
Weight	lb.	242
Dimensions (L x W xH)	mm	1068x525x850
Dimensions (L x W xH)	in.	42x21x33
Supply voltages	V (ac)	230(+/-10%)50Hz
Power consumption	VA	1100

ACCESSORIES

	UL1000 Helium Leak Detector
ESD Mat	551-002
Helium Bottle Holder	551-001
Remote Control RC1000C, wired, with 4m coiled cable	551-010
Remote Control RC1000WL, wireless, incl. wireless transmitter	551-015
Toolbox, detachable, For UL1000	551-000
Wireless transmitter for RC1000WL	551-020



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