



Dry Helium Leak Detector UL5000

ULTRATEST™ Sensor Technology

Defining Speed and Accuracy in Leak Detection

The INFICON UL5000 Helium Leak Detector is designed to meet the most critical and demanding leak detection applications. Featuring INFICON proprietary software algorithms I-CAL and Hydro-S in a field-proven vacuum design, the UL5000 provides testing flexibility, high sensitivity and quick accurate results making any leak detection application fast and easy.

The UL5000 delivers fast response times in all measurement ranges and extremely short cycle times in reaching test conditions and final results. The specially designed vacuum architecture provides the continuous high helium pumping speeds and the extremely fast response times you demand.



FEATURES

- HYDRO-S (HYDROgen-Suppression) to enable test conditions to be reached quickly.
- I-CAL (Intelligent - Calculation Algorithm for Leak Rates) to ensure fast response to leaks in all measurement ranges.
- A special multiple inlet turbomolecular pump that provides optimized high helium pumping speeds with high helium compression at all pressures to deliver excellent sensitivity, response, and fast clean-up.
- A booster turbomolecular pump for extremely fast response on any test object, including the largest volumes and chambers.
- The field-proven INFICON magnetic sector mass spectrometer for years of accurate and repeatable results in a trouble-free, maintenance-free design.
- Self-protection features to protect the UL5000 from helium and particulate contamination and even an auto-purge cycle to ensure the UL5000 is ready when you need it.
- A rotatable display / control interface and optional remote hand controller for operational flexibility.
- Access control to the unit and system software can be enabled via the software to prevent unauthorized use or unintended modifications to test set-ups.
- Software updates via e-mail to keep your UL5000 at optimum performance.
- Work Station Design with an optimal height work surface that includes an ESD mat and tool box for testing convenience.

ORDERING INFORMATION

Type	UL5000 Helium Leak Detector
Leak Detector UL5000, 100V / 115 V	550-501A
UL5000, 230V AC, EU plug	550-500A

SPECIFICATIONS

Type		UL5000 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	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	max 20
Helium pumping speed ULTRA mode	L/s	>20
Detectable masses		2,3,4 amu
Mass spectrometer Sector Field		180 °C
Filaments ion source Iridium/Yttria coated		2
Calibrated built-in test leak		E-7
Test port		DN40KF
Adjustable triggers		2
Interface		RS232
Chart recorder output		2 x10 V
In/Outputs		PLC compatible
Permissible ambient temperature (during operation)	°C	+10...+40
Type of protection		IP 20
Weight	kg	140
Weight	lb.	308
Dimensions (LxWxH)	mm	1068x530x1083
Dimensions (LxWxH)	in.	42.5x21x42.6
Supply voltage	V (ac)	230(+/-10%)50Hz
Power consumption	VA	1100

ACCESSORIES

	UL5000 Helium Leak Detector
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
Wireless transmitter for RC1000WL	551-020



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