

INFICON

UL6000 Fab PLUS

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UL6000 Fab Series Pit stops in best times

The ultimate in leak testing







Premium Quality made in Germany



INFICON – Your specialist for the most reliable leak testing

With its high-precision measuring devices such as the UL1000 Fab and the UL5000, INFICON has held the pole position in leak testing for over 15 years.

The UL3000 Fab (ULTRA) set new standards. With the innovative UL6000 Fab product series, we are moving into the passing lane and defining a new benchmark for quickly detecting leaks. For vastly shorter downtimes and the highest productivity of our customers.

EXAMPLES OF UL6000 FAB SERIES APPLICATIONS:

Semiconductor manufacturing

computer chips, processors, memory, or other semiconductors

Flat panel display manufacturing

from the smallest smart devices to large flat screens

Solar cell manufacturing

terrestrial solar cells and high-capacity models for space technology

Aerospace

components, assemblies and systems

EXCELLENT SUPPORT INCLUDED

We are always happy to provide extensive training by our Sales & Application Support. Also, our worldwide customer service, with its extensive experience in gas measuring technology, guarantees for a long lifetime of the device.

Deal with downtime at record speed

Every second counts during leak testing, since unscheduled equipment downtime is very costly to companies. Dedicated fast-response teams suddenly become the pit crew and must find and repair leaks very quickly.

The UL6000 Fab series by INFICON is not only the most precise, durable and reliable testing system on the market, it also saves time throughout the testing sequence. These benefits, along with the intuitive handling, help your pit crew find even the smallest leaks in record time.

ADVANTAGES AT A GLANCE

INNOVATIVE BOOSTER PUMP

• Speed and precision, shorter response times and quicker helium removal, especially with large volumes

VACUUM BACKING PUMP

 Shortest pump-down time, very durable, requires minimal maintenance, resists water vapor pressure

ROBUST VACUUM SYSTEM

• Extremely resistant against unintentional shock venting, requires only minimal maintenance

I-CAL – exclusively by INFICON

• Time-saving software algorithm, reduces noise to a minimum without missing details such as the slightest real signal peak

I-ZERO 2.0 – exclusively by INFICON

• Low helium background in the briefest time, reliably detects even the smallest leaks

MASSIVE MODE – exclusively by INFICON

 Leak testing beginning at atmospheric pressure, spray method detects large leaks as well

HYDRO·S – exclusively by **INFICON**

• Eliminates the water content in the signal to quickly reach a low background at the beginning of the test

I-CHECK – exclusively by INFICON

 Measures helium concentration in the environment to ensure optimum measurement conditions

I-RISE – exclusively by INFICON

• Provides in-device rate-of-rise measurement combined with helium spraying method

I·RISE: RATE-OF-RISE IN UNDER 10 SECONDS

Leak detection is both time-consuming and complex. If the integral leak test, which helps monitor semiconductor and vacuum equipment during operation, indicates leaks, their positions are then localized using the helium spraying method allowing for the required repair. This is followed by another leak test using pressure increase or so-called vacuum decay measurement – until all leaks are detected. Moreover, measurement times for this procedure are often particularly long for large equipment volumes.

The new UL6000 Fab PLUS now performs pressure increase measurement all by itself and combines it with the helium spraying method. Our patented system enables measurement times to drop drastically, and thus helps minimize both general time for leak testing and fab equipment maintenance. Experience even faster and more precise measurement results – in under 10 seconds, independent of chamber volume.

TWO INNOVATIVE PUMPS FOR GREATER SPEED

Our **booster pump**, with a capacity of over 36 l/s, has the highest helium pumping speed on the market, which ensures the shortest response times even at large volumes.

Our **roots pump** also exceeds other models with a comparable maximum air pumping speed of 36 m³/h. Powerful pumping speed for shorter evacuation times.

And with a minimum detectable leak rate of $5 \cdot 10^{-12}$ mbar·l/s, the UL6000 Fab series is clearly the leader in precision!



RELIABLE HANDLING

When time is of the essence, you must be able to operate the device intuitively. The user-friendly control unit is the key. The menu navigation is particularly intuitive and is easy to use after a brief introduction. The software also has a practical help feature for any questions that might come up.

LARGE CONNECTING FLANGE DN63

The UL6000 Fab series by INFICON uses a DN63 ISO-K connection. When a DN63 corrugated hose is used for the connection, the throughput is more than twice as high as with a DN40 corrugated hose, resulting in a quicker test result. Of course, with an adapter, DN40 ISO-KF can be used as well. Even with a DN63/40 adapter, the helium pumping speed of 30 l/s is unrivaled.

SLIM DESIGN FOR EASY HANDLING

Transport to the testing site must be guick and uncomplicated. The slim design of the UL6000 Fab series makes it easy to maneuver, even when space is tight. It also leaves more room for maintenance work around the equipment and is easy to store.

PRACTICAL STORAGE COMPARTMENT

Store vacuum parts and accessories in the instrument's built-in compartment in the leak detector. This means all of the components you need are on hand when you are in a hurry.

LOCKABLE CASTERS

The sturdy footing of the leak detector is an important safety aspect. The lockable, durable casters ensure the stability of the instrument for safe and secure operation.

I·RISE Rate-of-rise in under 10 seconds

UL6000 Fab PLUS

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ULTRATEST® sensor technology – exclusively by INFICON

SNIFFER LINE AND HELIUM BOTTLE HOLDER

ALTERNATIVE CONTROLLERS

Wireless remote control Full color, 3.5" touchscreen display – the controller for the UL6000 Fab series offers you complete control in any position. And with a resolution of 240 x 320 pixels, you will always have an overview of all of the relevant measurements.

The flexible web app

started.

HDMI

- Helium detection with proven 180° mass spectrometer • Components and materials that meet the most stringent demands
- Reliable ion source with three-year warranty
- · Detection of the slightest helium quantities, with the
- highest degree of sensitivity in the industry

MODERN CONTROLLER WITH TOUCH DISPLAY

The controller for the UL6000 Fab series offers you complete control and an overview of all the measurement results in any position, with its swiveling, high-resolution 7-inch LED touch display.

ALWAYS THE RIGHT INTERFACE

Do your quality requirements demand transparent documentation? The various interfaces on the mobile UL6000 Fab series leak testers mean that data can be exported easily at any time. Just choose between the Wi-Fi, LAN or USB ports.

Our sniffer line SL3000 is available in different sizes. Choose between lengths of 3, 5 and 10 meters. Helium bottles can easily be attached to the leak tester with the bracket available separately.



The UL6000 Fab series of mobile leak The UL6000 Fab series of mobile leak testers can be controlled via a web app, making the devices very easy to handle. This allows platform-independent control from any device. Just connect to Wi-Fi and open the web app to get

The HDMI interface allows to connect an external touch display.

UL6000 Fab Series

UL6000 Fab Series	
SPECIFICATIONS	JL6000 Fab UL6000 Fab PLUS
Min. detectable leak rate for helium (vacuum method)	<5·10 ⁻¹² mbar·L/s
Min. detectable leak rate for helium (sniffer mode)	<5·10 ⁻⁸ mbar·L/s
Max. inlet pressure (MASSIVE mode)	atm. (~1013 mbar)
Type of roughing pump	roots
Max. pumping speed of roughing pump	36 m³/h
Pumping speed @ inlet (100-1000 mbar)	23 m³/h
Pumping speed @ inlet (10-100 mbar)	26 m³/h
Pumping speed @ inlet (1-10 mbar)	26 m³/h
Max. helium pumping speed (ULTRA mode)	>36 L/s
Max. helium pumping speed DN63 reduced to DN40	~ 30 L/s
Response time for 50 L	1.4 s
Evacuation time to 1 mbar 50 L	52 s
Evacuation time to 1 mbar 100 L*	104 s
Evacuation time to 1 mbar 500 L*	527 s
Evacuation time to 1 mbar 1000 L*	1054 s
Venting 50 L to atm.	16 s
Run up time for operation	<2 min
Time for calibration	<30 s
Time for rate-of-rise measurement (I·RISE)	– <10 s
Inlet flange	DN63 ISO-K
Detectable masses (ULTRATEST Sensor Technology)	2, 3, 4 (H ₂ , ³ He, He)
Supply voltage	100 bis 230 V 50/60 Hz
Max. Power Consumption	1500 VA
Typ. Power Consumption	700 VA
Dimensions (I x w x h)	1050 x 472 x 1040 mm
Weight	143 kg 144 kg
	<u> </u>
*extrapolated	
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ORDERING INFORMATION	Cat. no.
ORDERING INFORMATION PRODUCT	Cat. no. 550-520
ORDERING INFORMATION PRODUCT UL6000 Fab (100 to 230 V 50/60 Hz)	550-520
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