



# INFICON

## TC1000 Test Chamber

ACCESSORY FOR HELIUM LEAK DETECTORS

### AUTOMATIC, RELIABLE LEAK TESTING OF HERMETICALLY SEALED PACKAGES

The TC1000 Test Chamber provides easy, fast and accurate testing of hermetically sealed parts like IC packages, quartz crystals and laser diodes (according to MIL-STD 883, Method 1014). The TC1000 Test Chamber is an accessory specially designed for the proven INFICON UL1000 and UL1000 Fab Helium Leak Detectors to provide rugged, reliable and user-friendly leak detection in the manufacturing of airtight packaging.

#### **INCREASED PRODUCTIVITY FROM YOUR HELIUM LEAK DETECTOR**

The UL1000 and UL1000 FAB helium leak detectors provide quick leak testing results in mass production environments. With the addition of the TC1000 Test Chamber accessory, your INFICON leak detector will provide maximum flexibility during production leak checking.

Easy-to-use, the TC1000 Test Chamber is designed with a maintenance-free hinge that allows trouble-free opening and closing of the chamber lid. The leak test automatically begins with the integrated sensor switch. Test results are displayed by red and green LED's that are clearly visible even from considerable distances. An integrated sieve prevents the objects being tested from falling into the leak detector.

The integrated test leak of the UL1000 and UL1000 Fab provides fast, easy and precise calibration of the test unit. Calibration by an external test leak is possible through the optional test adapter plate.

#### **PROTECTION FROM STATIC DISCHARGE**

The ESD wristband and optional ESD mat for the UL1000 and UL1000 Fab protect the tested parts against damage from static discharge.

#### **FEATURES AT A GLANCE**

- fast test cycle:  $1 \times 10^{-9}$  mbar l/s in < 5 seconds
- automated test cycle
- rotatable control interface and display
- fast, accurate, repeatable test results
- user-friendly design
- calibration via internal or external test leak, traceable to national standards
- maintenance-free
- rugged and reliable

## ADVANCED UL1000 SOFTWARE MENU

Control of the test cycle can be performed automatically through the software's "Auto Leak Test." The operator can enter test parameters such as:

- cycle time
- trigger level
- number of parts tested

The status of the test cycle can always be monitored on the display. The test stops automatically after the adjusted cycle time, and the chamber is automatically vented. A selectable "Standby" mode keeps the chamber under vacuum when discontinuing the leak test or when the leak detector is powered down. Protective functions prevent helium contamination by large leaks and ensure continuous operation.



UL1000 has a rotatable control interface and display.

## SPECIFICATIONS

|                              |   |
|------------------------------|---|
| Volume (hemispherical shape) | approx. 430 ccm                                     |
| Upper diameter               | 130 mm  |
| Depth                        | 40 mm   |
| Material                     | Aluminum alloy, vacuum approved low outgassing rate |
| Weight                       | 2.5 kg  |
| Vacuum connection            | DN 25 KF  |

## ORDERING INFORMATION

|   | Cat.No.     |
|---|-------------|
| Test chamber TC1000 with sensor switch and LEDs, including ESD wrist band | 551-005     |
| Test leak adapter with flange DN 25 KF                                    | 200 001 797 |
| Helium Leak Detector:   |             |
| UL1000 Helium Leak Detector   | 550-000A    |
| UL1000 Fab Helium Leak Detector   | 550-100A    |
| Accessories:  |             |
| ESD mat for UL1000/UL1000 Fab   | 551-002     |
| External test leak TL 7 (10 <sup>-7</sup> mbar l/s range)                 | 142 10      |
| External test leak TL 8 (10 <sup>-8</sup> mbar l/s range)                 | 165 57      |
| External test leak TL 9 (10 <sup>-9</sup> mbar l/s range)                 | 144 08      |



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

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