

# TME SOLUTION-C™



## Non-Destructive sealed product or package leak tester



The TME Solution-C test system produces quantitative test results from products that cannot be accessed to pressurize through the access port, as well as sealed, flexible medical, pharmaceutical and food packages.

By combining the sensitivity of pressure or vacuum decay leak testing with the simplicity of sealed fixtures, the TME Solution-C system can detect holes as small as 5 microns. This highly sensitive method uses a proprietary chamber design to find leaks in product seals or walls and seals of common package materials such as films, foils and laminates.

Clean, dry tests with repeatable, quantitative results. Stores up to 100 different tests or test parameters and has a data log capacity of 5,000.

### **Test results.**

Realtime statistical analysis accessible on demand, including quality control charts for proactive process control.

Two-way RS232 computer connection is standard for data collection and remote parameter control. Ethernet connectivity available to allow data to be transmitted from the instrument to a LAN.

The TME Solution-C conforms to ASTM guideline and provides CFR Part 11 data protection. Calibration is NIST traceable.

**Non-destructive**

**Ethernet available**

**High resolution 0.0001 Psig**

**Detect holes as small as 5 microns**

**Pressure or vacuum decay**

**Real time SPC statistics**

**Meets ASTM guideline**

**CFR Pa, 11 data protection**

**NIST traceable calibration**



TME Solution-C non-destructive leak tester with custom fixture for testing pharmaceutical bottles

**Specifications:**

**Dimensions:** 8.5"W x 16"D x 10"H 21.6W x 40.6D x 25.4H cm

**Power Supply Voltage:**  
**US:** 110/220V, 50/60Hz @ 2.5 amps  
**EU:** 230V, 50-60Hz @ 1.25 amps

**Storage and/or Operating Environment**  
 5-40°C (40-100°F)  
 RH < 80%, non-condensing

**Controls:** Push buttons, Touch pad, Keylock, Power ON/OFF switch

**Test Channels:** 1

**Test mode:** Pressure or Vacuum, Single or Differential

**Single Tests:** Leak, Flow

**Dual Tests:** Leak/Flow, Flow/Leak

**Display:** Backlit colored LCD, 40 character x 16 line alphanumeric

**Units of measure:** psi/InH<sub>2</sub>O/kPa/mbar  
 Others available

**DATALOG Memory:** Up to 5,000 tests

**PROGRAM Memory:** Up to 100 linkable programs

**Statistics:** Mean and range charts  
 Histograms, Standard deviation, Averages, Min/Max, UCL & LCL

**Manual Output:** Test setup parameters, Current results, Datalog and Statistics on demand

**Automatic Output:** Current test results to preset printer

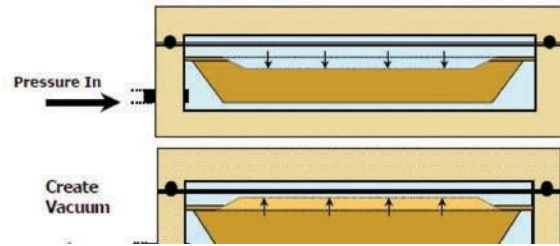
**Auxiliary Output:** 24V Opto Isolated PLC interface for single and multi-port configurations

**Communications:** RS232, connector program input/output data

**Calibration:** NIST Traceable

**Timer Ranges:** 0.1 to 1,000 sec

**What is Pressure/Vacuum Decay Chamber Testing?**



When a sealed package or device is placed in a surrogate chamber, a pressure differential can be created across the non-porous barrier on the package walls or seal. Once stabilized, air movement from the higher pressure to the lower will indicate the presence of a leak path, providing quantitative measure of package integrity without disrupting the package seals.

The closed chamber (surrogate) test can use either pressurization or vacuum techniques to create a pressure differential. The test item is placed in a custom engineered chamber, which is sealed and pressurized (or evacuated). Once the test pressure is reached, the TME Solution leak test instrument can detect air leaking through a hole as small as 5 microns.

**Pressure Specifications**

Pressure Range (psig)	Resolution (psig)	Accuracy +/- 0.5% FDS
-13.5 - -0.5	0.0005	+/- 0.068
0.5 - 5	0.0001	+/- 0.025
0.5 - 15	0.0001	+/- 0.075
1.0 - 50	0.0005	+/- 0.25
2 - 100	0.001	+/- 0.50
2 - 150	0.002	+/- 0.75
5 - 300	0.005	+/- 1.50

For custom pressure ranges - contact us

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