TME SOLUTION C–BC™

TM Electronics

Non–Destructive Blister Card Leak Test System

The TME Solution C–BC Blister Card test system produces quantitative results in non–destructive, pressure or vacuum decay leak testing of blister cards.

The test instrument provides all the features of the high–resolution, technologically advanced TME Solution–C test instrument, and the customized test chambers accommodate your specifc product.

Interchangeable fixture inserts are custom designed and manufactured to maximize the sensitivity of the test on your particular blister cards.

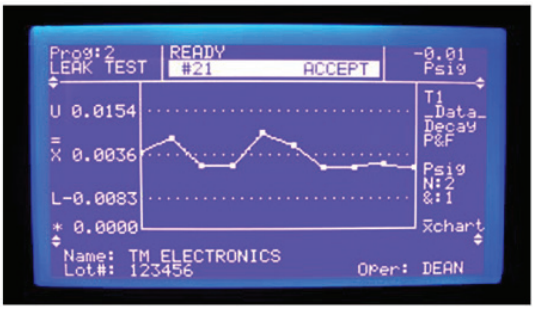
Highly repeatable, quantitive results from non–destuctive vacuum or pressure decay leak testing of blister cards, avoiding the loss of good product through testing.

Units of measure include PSI, InH_2O, kPa, and mbar. VFR Part 11 Data Protection is standard in the TME Solution–C instrument, and calibration is NIST traceable.

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

The Solution systems have proven throughout the years to be one of the most reliable long lasting custom ad standard test instruments in the medical and pharmaceutical industries.

- Non–destructive
- Quantitative, Repeatable
- Ethernet available
- High resolution 0.0001 Psig
- Detect holes as small as 5 microns
- Pressure or vacuum decay
- Custom test fixtures
- Real time SPC statistics
- CFR Part 11 data protection
- NIST traceable calibration



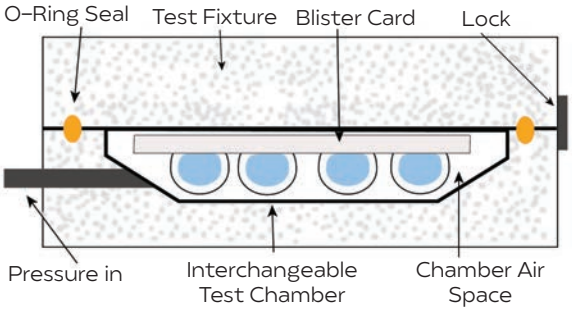
Screen capture of test .
The TME Solution–CB enables real time process control by providing statistical analysis of test results. Earlier detection of process probelms reduces product loss.

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/ InH2O / 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

How does the Pressure or Vacuum decay chamber test for blister cards work?

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



The blister card is enclosed in the test chamber and the fixture locked. The airspace in the chamber is pressurized, stabilized and tested for pressure decay. No decay – No Leaks. If a leak exists in the blister card seal or material, there will be a measurable pressure decay as air leaks into the volume in the blister. NOTE, there must be an adequate void volume in the sealed blister to permit air movement in the presence of a leak.

The chamber test can also be configured as a vacuum test for appropriate applications.

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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