Case History - Problem/Goal:
The customer was looking for a method to confirm the leak integrity of medical dispenser blister packs without destroying the package and/or contaminating the contents.

Resolution:
A vacuum decay chamber test system was recommended, as it can be further customized to accommodate various configurations of blister packs. The test fixture is composed of a fixed base with inserts designed to minimize the “interstitial space” outside the test part, thus maximizing the sensitivity of the test.

Method:
The blisters are tested within a chamber that uses vacuum to create a differential pressure on the package and detect leakage from the “head space” (air space surrounding the product inside the blister) of the test part into the chamber. If air from the part enters the chamber a reduced vacuum level indicates a leakage into the test chamber. TME’s Solution™ Leak Tester detects this leakage of air (“vacuum decay”), thus indicating a leak. If the part is not identified as a reject, it is returned to the packaging line as good product.

The fixture:
The test fixture is custom designed to meet the client’s exact needs. It can be designed with any number of interchangeable radial sealing assemblies to accommodate different tube diameters and a variety of assemble lengths.