



RLD 400 EC

Leak Tester

100 % In-Line Machine for Non-Invasive, Non-Destructive Integrity Inspection for empty containers.



HIGHLIGHTS



- Zero downtime
- Zero alteration of container features
- **Quality Ensured: No leaking containers due to: microholes, inappropriate sealing or cracks**
- **Safe products for the end-user & manufacturers protection from financial loss due to recalls, lawsuits and potential adverse publicity**

TECHNICAL FEATURES



Container Application: Capsules, Bottles, Cups, Ready Meals

Container Dimensions: 35 mm x 35 mm x 35 mm (min), 87 mm x 87 mm x 305 mm (max)

Speed: From 250 to 500 cpm

Technology: CCIT

Inspection Features: Non-Invasive, Non-Destructive CCIT based on Vacuum Decay Method

Inspection Capabilities: Microleaks detection

ADDITIONAL BENEFITS



- High machine **adaptability & stability**
- **Customizable solutions** for line interface
- **Easy bypass** and reduced downtime in case of interference thanks to **safety clutches** present in each testing chamber shaft and star wheels
- **Quick format change:** automatic height adjustment

TECHNOLOGY



Container Closure Integrity Testing is a non-destructive measurement technology based on **Vacuum Decay Method and Lid Deflection** performed while the package itself is held within an hermetically sealed test chamber.

Vacuum Decay test measures the loss of vacuum inside the testing chamber as a result of headspace gas leakage from the package.

A special sensor (BHS) is in place to control the integrity of the lid or foil by means of a dedicated package lid deflection algorithm. This application is suggested when applying the vacuum decay leak testing method to containers having non-rigid external surfaces. The sensor is used to detect significant changes in pack surface deflection during the execution of vacuum decay testing cycle. This technology allows to increase the detection capability and to reduce the leak testing time making it a fundamental feature, for example in the case of food trays and cups.

The monitoring of the vacuum level allows to identify microleaks and rejecting the faulty container.

QUALITY ASSURANCE



Equipment test method refers to:

- Approved industry standard **"ASTM F2338-09"**: "Standard Test Method for Non-Destructive Detection of Leaks in Packages"