

C690B Nondestructive Package Leak

Detector is based on the vacuum decay method,
designed and manufactured according to ASTM

F2338 and other standards. It is professionally
suitable for trace leakage detection of all kinds of
food packaging bottles, cans, boxes, vials,
ampoule, cartridge bottles, infusion bottles,
prefilled syringes and other pharmaceutical packaging.



Features Note 1

Multi-stage Vacuum

- The principle of vacuum decay method is a non-destructive leakage detection method suitable for various stypes of packaging.
- The target vacuum degree can be set by the operator to meet testing requirements of different samples.
- Transparent test cell for easy observation of the sample state.

Precise Data

- Advanced pressure detection technology, using world renowned components for data stability which
 is not affected by ambient environment.
- Advanced microflow automatic flow control technology that can accurately simulate different sizes of leakage holes without manual adjustment.
- Both the differential pressure transducer and flow meter are traceable to NIST.
- The system can achieve a higher test repeatability of ± 1 um.

Intelligent Control

- 12.1" industrial grade touch screen, tile-based operation interface.
- Pressure curves are displayed in real time, and test results are counted automatically.



- Leakage amount is calculated automatically.
- Automatic data storage and automatic memory during power loss.
- Micro-printer and USB data interface (optional).

Security Compliance

- Verified by compensation and calibration methods.
- Multi-level management for user operation permission.
- Meet the GMP requirements for data traceability and meet the needs of the pharmaceutical industry (optional).
- Electronic signature is designed according to standard requirements of 21 CFR Part11 (optional)

Test Principle

The sample is sealed in the test cell, and the sealed test cell is evacuated to analyze the pressure change measured by the sensor to calculate the leakage rate of the sample.

Reference Standards

ASTM F2338, YY-T 0681.18 and USP<1207>

Applications

Basic	Vials	Various vial leak tests.
Applications Food Packaging All kinds of food packaging bottles, tubes, cans, box		All kinds of food packaging bottles, tubes, cans, box leak tests.
Extended Applications	Ampoule	Various ampoule bottle leak tests.
	Cartridge Bottle	Various cartridge bottle leak tests.
	Injection Bottle	Various injection bottles leak tests.

Technical Parameters

Table 1: Test Parameters Note 2

Parameter \ Model		C690B
Test Range	Um (reference aperture size USP1207)	3∼8∼great leakage



Detection lower limit	um	≤ 3
Resolution	um	0.1
Repeatability	um	±1
Pressure Range	kPa	-100~0
	21 CFR Part11	Optional
Extended Functions	GMP computer system requirements	Optional

Table 2: Technical Specifications

Test Cell	1 set
Sample Size	≤ Ф 45 mm×80mm ^{Note 3}
Sample Quantity	1 piece
Gas Specifications	Compressed Air (Gas source is provided by the user)
Gas Source Pressure	≥ 40.6 PSI / 500 kPa
Port Size	Φ6 mm Polyurethane tube
Dimensions	10" H x 13" W x 17" D (25cm x 33cm x 44cm)
Power	120VAC \pm 10% 60Hz / 220VAC \pm 10% 50Hz (select one from the two)
Net Weight	22Lbs (10kg)

Table 3: Product Configuration

Standard	Mainfugues and transport flow market and consumer to the constraint of the constrain		
Configuration	Mainframe, software, flow meter, vacuum pump, Φ6 mm polyurethane tube		
Overtone in a time	Test cell, negative standard reference sample and positive standard reference		
Customization	sample are designed according to the sample specifications		
Oution of Books	Computer, GMP computer system requirements, 21 CFR Part11, air		
Optional Parts	compressor , IQ/OQ/PQ documents		

Note 1: The described product characteristics are subject to the specific annotation of the "Technical Parameters" table.



Note 2: The parameters in the table are measured in the Labthink laboratory by professional operators according to the requirements and conditions of the relevant laboratory environmental standards.

Note 3: This sample dimension can be customized, but the lower detection limit and test range will change according to the sample size subject to the actual delivery.