ASC 7400XS

www.ascinstrument.com

Integrity test for flexible packaging

Non-destructive

The **ASC 7400XS** is a self-contained leak tester for small flexible packaging. It is suitable for manual operation and can be adapted for use in semi- or fully automated inspection stations.

User-friendly and ergonomic

A clear large touch screen ensures easy and intuitive communication. Opening/closing and inserting a product requires no particular operator effort.

The ASC 7400XS has been developed to replace traditional destructive leak tests and visual vacuum checks. It **quantifies** the level of integrity with objective measurements, supporting qualifications, validations, audits, etc. In addition, it verifies the seals' **resistance** to a certain internal pressure.

Benefits

Non-destructive

- ✓ Tested packs remain intact and can continue their way to the Customer
- ✓ Cost of test-generated waste is drastically reduced
- ✓ Testing can be intensified to monitor sealing process closely and correct drift early
- ✓ Critical or quarantined batches can be 100 % tested

Physical measurement of level of airtightness

- ✓ The measured value can be calibrated to a standard.
- ✓ Results are not operator-dependant.
- ✓ Deterministic test, compares to known references.

Traceability

- ✓ Results are stored
- ✓ Batch Report in pdf format
- ✓ Output via network (RJ 45, FTP) (USB on request)
- ✓ Meets 21 CFR part 11 requirements

Expert support

- ✓ First class support by specialists at each stage of project
- ✓ Method and validation studies
- ✓ Reference Packs with Calibrated Leaks (Positive Controls)
- ✓ Qualification Services

Integrity tester for flexible packs ASC 7400XS

Vacuum-based test method developed & patented by ASC Instrument

A wide range of flexible packaging (sachets, packs, pouches, etc.) can be successfully tested with this method. The instrument gradually installs a vacuum in the test chamber containing the product. This will « inflate » and make contact with a pressure sensor, which measures the internal pack pressure in a non-intrusive manner. After stabilization, the variation of this pressure ("ΔP") is used to establish the degree of airtightness. A ΔP exceeding the Acceptance Level indicates an insufficient level of integrity.
The test leaves the product **perfectly intact**.
It allows detection of **micro-leaks** (a few µm) as well as **large leaks.**

Measurement cycle

1. Insert product, close lid and press start
2. Vacuum build up
3. Stabilization
4. Test (ΔP measurement)
5. Release to atmospheric pressure

Standard vacuum range : -10 to -80 kPa (-100 to -800 mb)

Options and accessories

- Vacuum-packed products version **(-99 kPa**)
- Version test chamber 430 x 300 x 140 mm
- Version test chamber 815 x 815 x 100 mm
- Version test chamber 1020 x 520 x 120 mm

- Network port RJ45
- Batch Report (pdf)
- USB port
- I/O's for automation
- Reference Pack (control pack)
- Calibrated Leaks
- Label printer
- Vacuum pump
- Instrumented packs

Bar code reader

Light column

Specifications

Physical
18.3'' x 20.9'' x 14''
(465 x 530 x 355 mm)
Weight = 55 lbs (25 kg)
Test chamber (max pack size) :
8.5'' x 6.4'' x 3.9''
(216 x 162 x 100 mm)

Operator interface
High resolution 5.7'' touch screen
OK/NOK status via green/red icon
"Process locked" message on NOK

Power
24 V DC/ 5 A (mains adapter supplied, input 90-240 VAC 50/60Hz)
Vacuum supply
-100 kPa
Temperature
Operation : 60 to 77 F (+15°C to +25°C)
Storage : 32 to 140 F (0°C to +60°C)

ASC Instrument
Integrity testing