

Integrity tester for vials

Non-destructive leak testing



The **ASC 7400F** is a self-contained automatic leak tester for vials. It is suitable for manual operation, as well as semi- or fully automated inspection stations. It allows a quick, clean, dry inspection of the vials without altering these, without any risk of operator influence.

User-friendly and ergonomic:

A large high-resolution touch screen provides a clear user interface and allows a quick intuitive understanding of the instrument. Loading and unloading vials is very easy, the instrument provides the force required for the hermetic sealing of the test chamber.

The **ASC 7400F** is designed to replace the destructive leak tests prescribed by standards. Its high accuracy allows testing at the same or even finer levels than the traditional methylene blue dye method. It quantifies the degree of tightness by actually measuring a value. The measurement is linked to national standards and allows full traceability.

Benefits of testing with the ASC 7400F:

Non-destructive test

- ✓ All tested (and passed) vials can return to production line to be sold => **yield improvement and cost saving**
- ✓ No need for disposal of tested vials and product => **cost saving**
- ✓ Speed: quick test, higher sampling frequency possible => **better process control**
- ✓ 100% test possible on critical batches => **zero risk possible**
- ✓ 100% test possible on rejected batches => **allows saving of good products**

Physical measurement of leaktightness level

- ✓ The measured value is **calibrated to a standard**, linked to national standards
- ✓ Test results are **not dependant on operator** (attention, eyesight, concentration)
- ✓ Objective, automatic comparison against reject level => **no interpretation required**
- ✓ SPC (Statistical Process Control) possible => allowing **closer process monitoring & quicker intervention** in case of drift

Traceability of results

- ✓ Test results output on paper or as pdf
- ✓ Excel format possible, allowing statistical analysis

Implementation assistance:

- ✓ Assistance from ASC Instrument engineers in choosing transposition and calculation methods
- ✓ Assistance from independent metrology labs for process qualification
- ✓ Manufacturing of calibrated vials with certificate for process qualification

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Vacuum leak test

This measurement allows the testing of the filled vial tightness. The method involves depressurising the chamber in which the vial was inserted, isolating it and measuring the pressure variation over time. The variation of the pressure indicates the level of tightness.

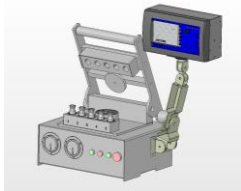
Measurement cycle

- Insertion of vial
- Closing of chamber
- Depressurisation
- Stabilisation (from thermal gas instability)
- Test (measurement of pressure variation)
- Results display
- Release (return to atmospheric pressure)

Standard test pressure: - 27 kPa (programmable)

Maximum pressure differential: 90 kPa, depending on Customer specifications.

Options and ancillaries



- **5 measuring heads option:** for simultaneous testing of 5 vials



Bar code reader



3-colour status light column

- USB port (results, Excel compatible format)
- Remote control box
- Remote Unlock box (remote unlock on Fail)
- Remote display
- Printer
- Label printer
- Custom label (logo, operator ID, batch Nr)

Ancillaries:

- Filtration kit
- Purification unit
- Vacuum pump
- Fittings, tubing etc.
- Calibrated leak vials

Specifications

Dimensions

450 x 800 x 520 mm (w x h x d)
Weight : 35 kg

Communication

Graphic 5.7" touch screen
Status lights

Power supply

24 V DC/ 5 A (adapter supplied)

Air supply

Clean and dry air, quality to ISO 8573-1
-100 and 600 kPa

Temperature

Operation : +15°C to + 25°C
Storage : 0°C to 60°C



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