

The **AlphaPro** is a fully AUTOMATIC Leak Detector dedicated to flexible packaging for the Food, Pet Care and Cosmetic Industries. It has been specially designed for assembly line sample testing in Factories which handle large production volumes, and that have to follow Food Safety Management Systems according to **ISO 22000 & HACCP**.

Current leak testing methods.

80% of Industrial Leak Detection devices are using pressure decay today. It is very effective to measure leaks for products that are rigid, whose shape does not change when put under pressure.

However, measuring precisely a leak by measuring pressure decay is only precise and reliable if the volume of the sample is not changing during the measurement, which is not the case for flexible packaging.

Flow measurement at a Constant Pressure is the only reliable method for measuring a leak in a flexible packaging. It follows DIN 55508-1 of 01/02/2018.

This is this method that has been selected to develop the **AlphaPro**, ensuring total precision and reliability.

AlphaPro main advantages:

- Fully automated process and data immediately available.
- Measure leaks > 5 µm
- Accurate analyzed results.
- ISO 22000 & HACCP compliance.
- Cost savings (the AlphaPro operates without consumables).
- Modified Atmosphere Packaging (MAP) packaging Control
- Brand protection and lasting taste for your products.

PRODUCT INFORMATION

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Leak detection technology for flexible packaging

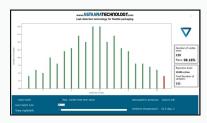
Automatic calibration check:

A calibrated leak is built-in the leak testing unit of the **AlphaPro**. The value of this calibrated leak is stored in the instrument's memory (the leak is expressed in cc/mn at a given pressure in Mb). The operator can compare the **AlphaPro** performance with the calibrated leak value at any time, and determine if recalibration is required.

Operating instructions:

To test products, divert samples from the assembly line to an inspection line where the **AlphaPro** has been installed, and the leak test is then performed without any human intervention whatsoever (it is a destructive test). Results are visible on the **AlphaPro** screen, these can be transferred instantly to a computer via a RS232 connection to study the results on a pivot table.

Optional monitor:



The optional monitor with integrated calculator displays the leakage results of the previous tests. The histogram shows the distribution of the results, and helps to understand if the production is experiencing an unfavourable drift.

Technical specification:

The **AlphaPro** consists of 2 different units: an **Alpha-Tower** (patented perforating device) and a **leak testing unit**. The **AlphaTower** and the leak testing unit are communicating via a PS/2 cable and a PU tubing.

1. AlphaTower:

Patented perforating device.



Touch sensitive buttons for perforating depth.

Servo driven internal perforating thin conical stainless steel pointer.

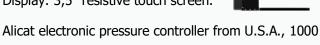
Silicon bellows diameter: 15mm* (* other sizes / shapes: consult us).

Cantilever holder for free movement of tower.

2. Leak testing unit:

Structure: aluminum and ABS.

Display: 3,5" resistive touch screen.



mbar scale.

Alicat mass flow meter from U.S.A., 1000 sccm scale.

Microprocessor: embedded ATMEL2560, 16 Mhz.

Calibrated leak port.

Foot print: 260 x 250 mm Weight: 10 Kg.

The **AlphaPro** is guaranteed 3 years.

WARRANTY TERMS AND CONDITIONS, other ASTAARA products, videos, dimensions, weights, drawings and further information @ www.ASTAARATECHNOLOGY.com.

Manufacturer: Astaara Singapore Pte. Ltd.

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