# ALPS

## SC Linear

**Indexing Conveyor Leak Tester** 

The ALPS SC Linear indexing conveyor leak tester is an excellent general purpose empty container leak tester with a wide range of capabilities.

The conveyor is fully integrated, with optional vacuum capability, and designed for optimal handling to ensure the most accurate leak test possible in addition to the highest speed capacity on a single test station.

Speed and sensitivity depend on the container size and volume. Typical inspection speeds range from 10 to 30 Containers-Per-Minute (CPM) for larger containers (e.g. 4 to 5L); to 60 to 100 CPM for single-serve containers (e.g. 0.5L); up to the 180 to 200 CPM range for the smallest pharmaceutical bottles (e.g. 20 to 40mL).

The SC Linear utilizes the latest state-of-the-art controls. The units feature a full color touch screen with an icon-based menu structure, graphical displays of the pressure and results, unlimited recipe storage, and 'Guided Setup' software. Guided Setup includes step-by-step instructions to show a novice operator how to set up a brand new bottle, including all mechanical steps plus setup of the leak test and reject limits by simply running containers through the system.

The standard SC Linear uses a 4.5" (114mm) width and 3.5 foot (1067mm) length conveyor, with conveyor rails adjustable up to 8" (203mm). Custom conveyor lengths and widths are possible to suit different container size and line layout requirements.

#### **Features and Benefits**

Feature	Corresponding Benefit
Fully Guided Setup software	Ability of a novice user to perform an effective setup on a new container
Color touch screen interface	High quality interface with numerous features and capabilities
Icon-based menu structure	Ease of navigation with all main functions available within 2 button presses
Graphic displays of part pressure and result calculations	Real time feedback for better understanding of the leak test function
Recipe storage with alphanumeric naming	Quick and repeatable changeovers with practically unlimited number of recipes to save and recall
Fast, powerful PLC controller	Non-proprietary controls platform that maintains ALPS leak test standards
Integrated 'Self Test' function	Easy and reliable means to verify detection of a defined hole size through the touch of a button
Automated 'Self Test' capability	Machine can auto-verify its operation after a prescribed number of tests, eliminating the need for personnel to activate Self Test
Password protection	Lock out unauthorized access to critical settings
Numeric display of probe and fill pressure regulators	Easy setup and monitoring of regulator settings which are critical to the leak test
Vacuum conveyor option	Higher speeds and more efficient handling on most container types
Fiber optic photo-eye with one-touch setup	Accurate and programmable container sensing
Counter Diverter option	Integrated counting of bottles into two boxes placed at the end of the leak tester conveyor
Height inspection options	Detect tall or short containers on the leak tester, with choice of resolution
Choked Neck Sensing probe option	Detect bottles with neck obstructions, using custom probes with spring-loaded tips and internal sensors
Reject verification option	Verifies that each container is ejected properly from the conveyor
Ethernet option	Allows collection of data from the system for SCADA purposes

#### **Standard Machine Specifications**



#### Standard Utility Requirements

120 VAC / 10A or 220 VAC / 5A • 50/60Hz for main control box 120 VAC / 12A or 220 VAC / 6A • 50/60Hz for blower motor if machine has vacuum conveyor 80 PSI (5.5 Bar) • 1 SCFM (1.7M<sup>3</sup>/hour) or less air consumption or less • 1/4" connection



Maintenance

Button

Settings

Button

Results

Button

### How It Works

The integrated leak tester conveyor runs continuously between tests. When the test photo-eye senses presence of a container, the conveyor is immediately stopped, a probe extends to form a leak tight seal, and the container is pressure tested for leakage.

If the container is "bad", a cylinder automatically ejects it from the test area immediately after the test is complete, and the conveyor restarts. If the container is "good", the conveyor restarts as soon as the test is complete.

#### ALPS is the leading North American manufacturer of high speed container leak inspection systems. Our current installed base of machines has capacity to test approximately 50 billion containers annually.



Air Logic Power Systems LLC (ALPS) 2440 W Corporate Preserve Drive, Suite 600, Oak Creek, WI, 53154 Phone: 414–574–4151 • Fax: 414–574–4152 24 Hour Service HOTLINE: 800-325-8717 or 414-574-4151 Web: www.alpsleak.com • Email: info@alpsleak.com

change and are intended for refere

Help

Button

Supervisor

Button

Home

Button