

# LT5 Leak Tester

## Overview

The LT5 leak detector is an in-line, bottle leak detection system capable of testing from 1 to 16 bottles at a time, with throughput to 240 bottles per minute depending on the number of test channels fitted.

The LT5 is designed for 100% leak testing of blow molding machine output. Several options are now available to allow this system to perform a variety of important additional bottle operations.

## Features

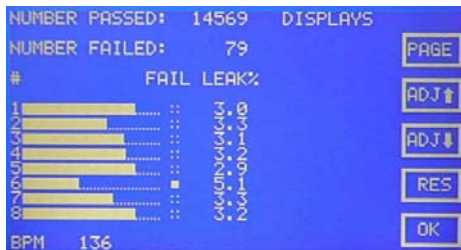
- **High Accuracy Leakage Measurement**

Measurement errors are minimized through the use of a sensitive pressure transducer with a low noise amplifier and high-speed, high-resolution analog to digital converter.



8 Head Leak Detector

- **Touch-Screen Microprocessor Control System**



New technologies make the touch-screen a far more efficient and cost effective means of interfacing with the system than with older, plain digital readouts. Some of their many advantages are:

- User friendly, intuitive operation.
- Extremely flexible design.
- Extra features and customizations now easily integrated into existing systems.
- All test results, displays and counts are displayed together on the main Displays page.
- Evaluate system status at a glance.
- All settings are grouped together on Settings page for easy inspection and modification.
- All input/output states are displayed together on a Diagnostics page for quick fault finding.
- Simple 4-core cable connection to touch panel avoids complex and messy connections.
- Setting changes can be locked out if required.

- **High Reliability**

Advanced technologies reduce the number and complexity of internal components. In-depth understanding of failure mechanisms, coupled with the integration of all electronic functions onto the PCB, assures that the LT5 meets only the highest standards of reliability.

- **Modular Pneumatic System**



Vales Rated a 50 Million Cycles

- **Modular Design**

Allows quick, flexible customization of the LT5 system to meet special needs and facilitate easier expansion even after installation.

Latest Auto Tuning  
 Background  
 suppression visible  
 light photo-sensors  
 fitted as standard

- **Cost Effective**

The LT5 circuit cards have been designed and programmed specifically for flexibility. Great care has been taken to ensure that the system is easily re-programmable and expandable to meet rapidly changing needs.

With this system, the performance limitations of using a bought-in PLC are easily avoided.



- **Flexible Bottle Transport System**

Timings can always be easily adjusted to maintain optimum bottle transport without sacrificing test time.

## Options

- Choked Bore / Ovality Test
- Fallen Bottle Rejection
- Stabilization Plate
- Batch Counter / Diverter
- Vacuum Operation
- Data Logging / SPC
- Wall Thickness Measurement
- Collating Table Control
- Bottle Orientation
- Angled Neck Bottle Testing

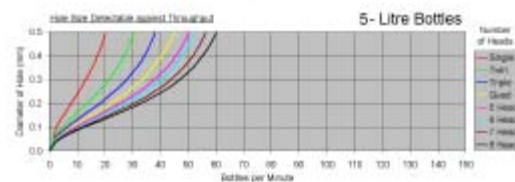
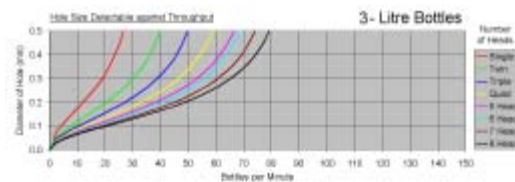
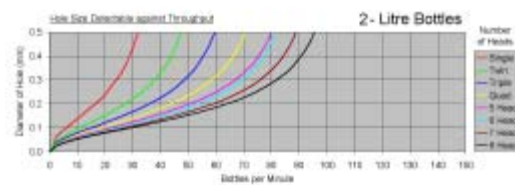
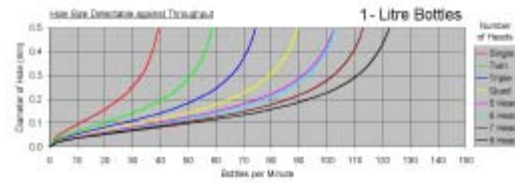
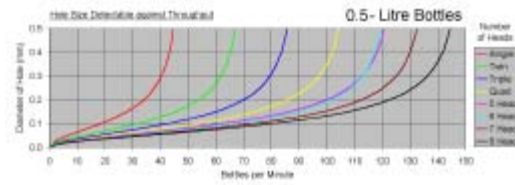
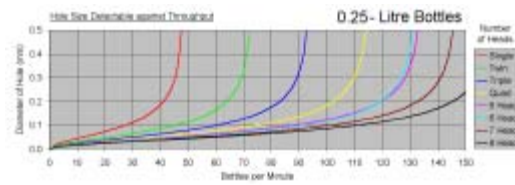
## LT5 Specification

Hole Size Detected / Bottle Throughput	0.1mm / 140 bottles per minute / 8 heads See performance graphs for details.
Number of Test Channels	Up to 16
Cycle Time	1 - 20 seconds, adjustable
Minimum Bottle Volume	250 cc
Maximum Bottle Volume	10 liters ( 2 gallons)
Test Pressure	Adjustable, 0.15 – 0.6 psi (10 – 40 mB)
Electrical Power Supply	110-120 VAC Single phase.
Electrical Power Consumption	50 VA maximum (excludes conveyor)
Air Supply	4-10 bar (60-150 psi)
Air Consumption	1 liter per min. typical
Leak Test Method	Ratiometric Pressure Decay, Auto-zero, Auto-scale, Adaptive pressurization algorithm.
Transducer	Semiconductor strain gauge diaphragm, 0.00-65.00 mB, 0.02% resolution, x20 Over-pressure protection

To use the graphs, first choose the graph with the nearest bottle size (shown at bottom). Find a colored line where the required hole size and throughput intersect. Read off the number of heads required from the key on the right of the graph. Contact the office if in doubt.

For further details contact us or visit our web site.

## Performance Graphs



**NECCo has the ability to provide engineering, equipment, installation, service and spare parts for all of your packaging needs. Please feel free to contact us about any of the following:**

Baggers (Automatic)  
 Baggers (Semi-Automatic)  
 Debaggers  
 Annealing Ovens  
 Scrap and Resin Systems

Cable Conveyor  
 Mattop Accumulation Conveyor  
 Tabletop Conveyor  
 Inclines and Declines  
 Ideas In Motion Support