

Body Leakage Tester

The industry standard for automotive body testing

Flow Dynamics' automotive Body Leakage Tester (BLT) is designed to perform static body air leakage tests on vehicles in assembly plants. This portable, self-contained unit enables automobile manufacturers to test their vehicle designs in accordance with recognized industry standards.

Application

The Body Leakage Tester employs a variable-speed motor attached to a blower to produce airflow. The rate of flow is measured using a mass air flow sensor and displayed in Standard Cubic Feet per Minute (SCFM).

With the BLT system, airflow is directed into the vehicle body via a flexible hose and window adapter. A differential pressure gage measures the difference in pressure between the vehicle cabin and the ambient environment.

In addition to the Body Leakage Tester, Flow Dynamics manufactures primary standard calibrators and maintains an elite calibration laboratory to calibrate all types of flowmeters. The company's calibration facility is NVLAP accredited, meeting the highest standards for the metrology industry as established by the U.S. National Institute of Standards and Technology (NIST).

Specifications

Fluid:	Air
Range:	5 – 400 SCFM
Differential Pressure:	0.1 – 1 INWC
Uncertainty:	2% Full Scale
Ambient Operating Temperature:	40° – 120° F



FM78587
AS9100 Rev. 6 and
ISO 9001:2000



Body Leakage Tester in a test cell showing blower hose and pressure averaging wand inserted into rear window.

Description

The Body Leakage Tester can determine the rate of air leakage into and out of a vehicle cabin under both pressure and vacuum conditions. Additionally, it can be used to test body components such as doors and windows with the use of custom adapters.

All BLT units are calibrated against a primary standard air flow calibrator. This ensures a consistent, high accuracy reading during all body leakage measurements. A calibration check ring is provided to periodically verify the accuracy of the tester.

Mechanical Components:

- Air blower
- Differential pressure gage
- Flexible hose
- Calibration check ring
- Window adapter
- Inlet filter
- Pressure averaging wand

Electronic Components:

- Mass air flow sensor
- Digital flow rate display
- Flow computer
- Variable speed drive
- Electronic power supply

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