

DESCRIPTION

The 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.

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.

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 gauge 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 laboratory to calibrate all types of flow meters. The calibration facility is NVLAP accredited (Lab Code 200668-0), meeting the highest standards for the metrology industry as established by the U.S. National Institute of Standards and Technology (NIST).



MECHANICAL COMPONENTS

- Air blower
- Differential pressure gauge
- 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

SPECIFICATIONS

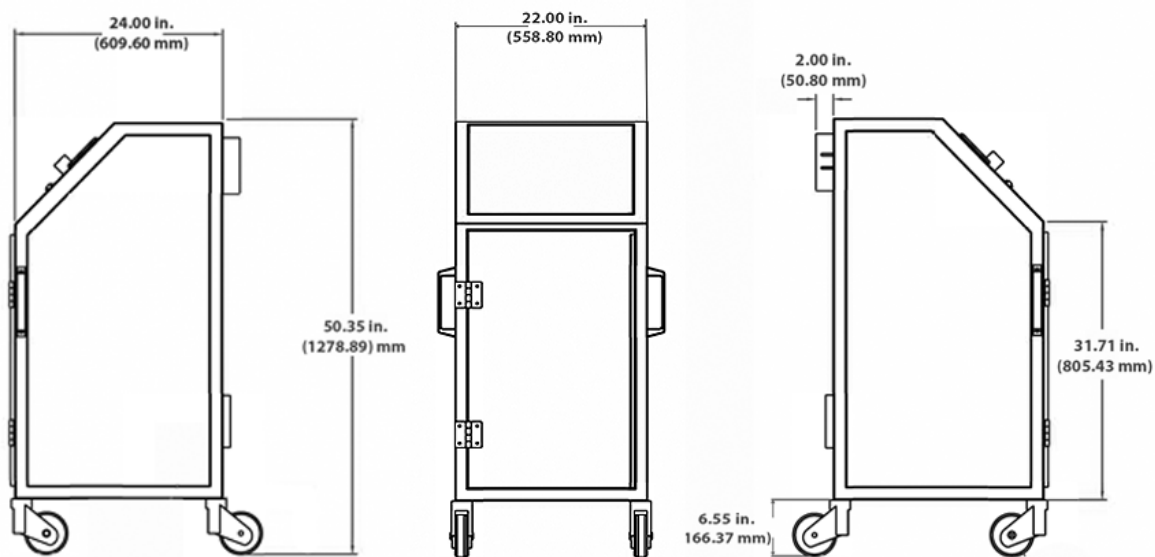
Fluid	Air
Range	5...400 SCFM
Differential Pressure	0.1...1 INWC
Uncertainty	2% Full Scale
Ambient Operating Temperature	40...120° F (4...49° C)

NOTE: NVLAP accreditation applies only to the Badger Meter Flow Dynamics calibration lab, located in Racine, Wisconsin.



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

DIMENSIONS



Control. Manage. Optimize.

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