



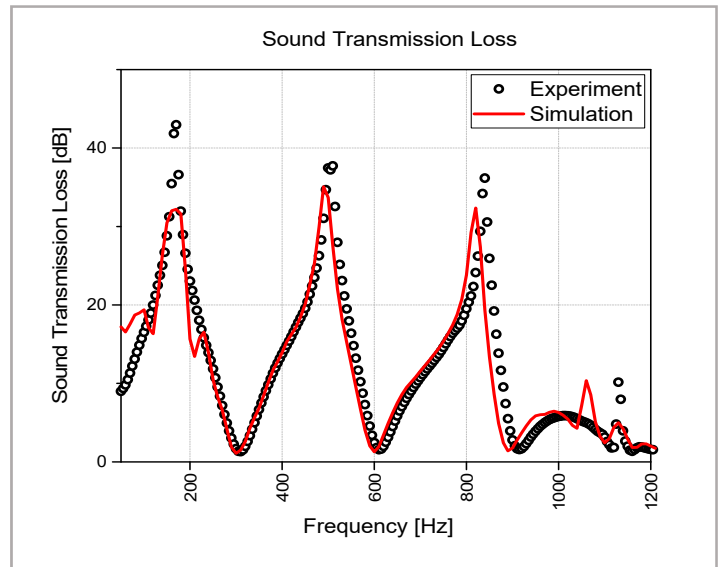
Alfa Acoustics Muffler testing setup is designed to measure sound transmission loss of standalone muffler or a complete system. The measurement software is based on the Transfer Function Method. The Transfer Function method separates the incident and transmitted energy from the measured transfer function, and then estimates the acoustic properties of the test muffler. The sound transmission loss module is as per ASTM E2611. Alfa Acoustics offers complete set of muffler testing Tube, which includes: the set of tubes, microphones; Data Acquisition hardware and measurement software.



Typical Test Setup

Technical Specifications

Impedance Tube Set	
Tube	Small
Internal Diameter (mm)	34.9
Sound Absorption Standards	ASTM E1050 / ISO 10534-2
Sound Transmission Loss Standard	ASTM E2611
Frequency Range (Hz)	100-5000
Microphones	1/4", Pressure Field – 4 Nos
Loudspeaker	4" in diameter, 15 Watts, 6 Ohm



Comparison of Measurement Vs Simulation

Salient Features

- Designed as per International Standards
- Low Cost and Lightweight Solution
- Quick and Simple to use
- Upgradable for - with airflow testing
- Direct data export to excel sheet