



Email : sales@laboratoryinstrumentindia.com

Product Name :
Acoustic Impedance Tube

Product Code :
LBNY-0005-1880002



Description :

A small microphone may be moved axially along the tube and Acoustic Impedance Tube position measured. The loudspeakers are fed with a common pure tone from a function generator and the sound waves pass along the tube to the sample. The Acoustic Impedance Tube consists of a transparent plastic tube fitted at one end with a glass reinforced plastic enclosure containing two loudspeakers and at the other with a heavy sample holder. The portion absorbed being converted into heat by the viscous action of the airborne wave as Acoustic Impedance Tube passes through the absorber. Dependent upon the type of material and the tone frequency, a portion of the sound energy is absorbed and the remainder is reflected back along the tube.

Technical Specification :

Experimental Capabilities:

Determine the speed of sound in air at ambient temperature and comparison of this with the calculated value.
Determine the Sound Absorption Coefficient for many of the normal building lining materials such as carpet, cork, fibre board and many of the better acoustic attenuating materials.
Determine the Sound Absorption Coefficient of these and some poor absorbers at a range of frequencies between approximately 300 and 4000Hz.



Laboratory Instrument India

