Email : sales@scilabexport.com
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Product Name :

Resonance Apparatus with Brass Tube

Product Code :

SLE/PHY/288



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Description :

Resonance Apparatus with Brass Tube (Product Code: SLE/PHY/288) is an air-column apparatus used to study sound resonance and estimate the speed of sound in school and college physics laboratories. Two metal tubes telescope into each other on a removable base, sostudents can set the air column anywhere from 300 mm to 530 mm. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and physics instruments supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Tubes	Two metal tubes telescoping into each other (brass tube)
Air column length	Adjustable from 300 mm up to 530 mm by moving the outer tube
Mounting	Fitted on a removable base
Application	Resonance investigations in air columns
Product code	SLE/PHY/288
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Resonance Tube Apparatus Used For?

Students hold a sounding tuning fork, or a small loudspeaker driven by a signal generator, just above the open end and slide the outer tube until the note swells to a clear maximum. That length marks a resonance of the air column. In a column closed at the lower end, the first resonance is close to a quarter of a wavelength plus a small end correction, so a known frequency leads to the wavelength and then to the speed of sound from v = f?.

Repeating the measurement with several forks and plotting length against the reciprocal of frequency turns this resonance tube experiment kit into a graph-based practical that also yields the end correction. Because the length is changed by sliding metal tubes rather than by raising a water level, set-up is dry and quick. Approach each resonance from both directions, average the two positions and note the room temperature, since the speed of sound depends on it.

What to Specify When Ordering

- Number of Resonance Apparatus with Brass Tube sets, usually one per student group.
- Your sound source: tuning fork sets, or a signal generator with a loudspeaker.
- Whether the order is for your own laboratories or for resale as a dealer or importer.

OEM Manufacturer

ScienceLab is the trading name of Jain Scientific Equipments Private Limited, the original equipment manufacturer (OEM) of this resonance apparatus. The telescoping tubes and base are made
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