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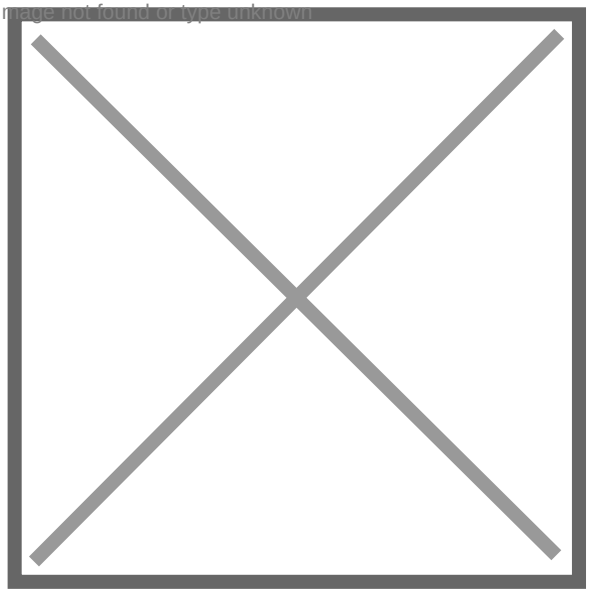
Product Name :

Resonance Tube Apparatus

Product Code :

SCL-298/047

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Description :

Resonance Tube Apparatus (Product Code: SCL-298/047) is a closed-pipe resonance set-up used to find the speed of sound in air with a tuning fork in school and college physicslaboratories. It is built around a 25 mm stainless steel (S.S.) pipe, and students use it in theresonance tube experiment to locate the first and second resonance positions of an air column. Itis made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its ownfactory in Ambala, India.

Specifications

Parameter	Detail
Type	Resonance apparatus (resonance tube)
Pipe material	Stainless steel (S.S.)
Pipe size	25 mm
Product code	SCL-298/047
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is a Resonance Tube Apparatus Used For?

The apparatus turns the pipe into an air column closed at the bottom by water and open at the top. A sounding tuning fork is held just above the open end while the length of the air column is slowly changed; at certain lengths the sound suddenly becomes much louder, which is resonance. The first resonance occurs at roughly a quarter wavelength and the second at three quarters, so the speed of sound equals twice the fork frequency multiplied by the difference between the two resonance lengths.

Hold the fork horizontally over the mouth of the tube without touching it, approach each resonance position slowly from above and below, and take several readings with more than one fork. Note the room temperature, because the speed of sound in air rises with temperature. The stainless steel pipe resists rust from the water used in the experiment, but drain and dry it after each session.

What to Specify When Ordering

- Number of Resonance Tube Apparatus units for your practical batches
- Whether a Tuning Fork Set and Rubber Pad should be quoted with each unit
- Which accessories come with the apparatus for your order (ask us to confirm in the quotation)

OEM Manufacturer

The Resonance Tube Apparatus is produced by ScienceLab, the brand of **Jain Scientific Equipments Private Limited**, which is the OEM (original equipment manufacturer) and makes it at its the stainl ner, and d and

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