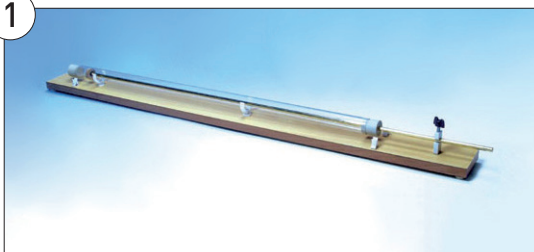


1



## 1. Kundt's Tube, Unmounted

Show the wavelength of vibrations in air in a closed tube by depositing lycopodium powder at the nodes. Comprising a glass tube approximately 80cm in length and 32mm in diameter. At one end is a tightly fitting but adjustable cork piston fitted to a metal rod 100cm long. At the other end a loose fitting piston attached to a sounding rod, 100cm in length and 8mm  $\varnothing$ . Closed length – 1890mm.

| Code   | Pack | Price  |
|--------|------|--------|
| PH0722 | Each | £87.36 |

2

LASCELLS



## 2. Lascells Resonance Tube

This apparatus is ideal for all resonance investigations in air columns. The main tube is 1 metre long and 50mm diameter which takes a high power sound wave generator unit plugged in to one end. The generator is driven by a standard laboratory signal generator and as the frequency is adjusted the various resonance modes are detected by increased loudness of the note. The open pipe can be studied or a variable length closed pipe can be used by inserting the piston assembly provided. By using a higher amplitude on the generator, Kundt's tube investigations can be undertaken. Fine cork or polystyrene dust is distributed throughout the tube and at resonance the powder gathers at the nodes. Wavelengths can be easily measured. To get a good response a closed tube is preferable, to reduce the sound levels in the laboratory while producing a measurable effect. The apparatus comes complete with two supports for the tube, sound wave generator, resonance tube, closing bung and full instructions. Requires a signal generator.

| Code   | Description     | Pack | Price   |
|--------|-----------------|------|---------|
| PY3090 | Resonance tube  | Each | £117.00 |
| PY1078 | Sound generator | Each | £61.48  |
| PY1080 | Acoustic probe  | Each | £74.62  |

3

SLS LAB BASICS



## 3. SLS Lab Basics Rubens Tube

The perfect visual demonstration of standing waves. Our own SLS Lab Basics Rubens tube has been designed for easy, safe demonstration within the school laboratory environment, and is a great way of catching the attention of even the most disinterested pupils. The unit consists of a high quality aluminium tube with a full range speaker mounted at one end. The endcaps incorporate carry handles which makes the unit easier to move after use. A power amplifier is also available that allows users to connect MP3 players directly into the Rubens tube speaker (requires a 12V PSU not supplied).

**A full risk assessment should be carried out prior to use.**

- Specification: 1200 x 75mm aluminium tube
- Standard Bunsen type connector
- 8 $\Omega$ , 15W full range loudspeaker
- Speaker input via 2 x 4mm sockets
- Compatible with natural and LPG gas
- Supplied with full instructions

| Code      | Description                    | Pack | Price   |
|-----------|--------------------------------|------|---------|
| SE5250913 | Rubens tube                    | Each | £180.90 |
| IZ08004   | Power amplifier for MP3 output | Each | £38.00  |