



RESONANCE APPARATUS – glass column

Cat: SW3030-001 Resonance, glass model

DESCRIPTION: The IEC glass ‘Resonance Apparatus’ is designed to perform standard experiments relating to resonance in air. The unit consists of a glass tube and a water reservoir vessel and rubber hose to join the two. Set includes support ring with boss and the retort clamp for the tube. **NOTE: Retort stand and bosshead are not included.**

SW3030-001 Resonance apparatus



Physical size: Tube: 25x1000mm DxL Vessel: 500ml Weight: 0.8 kg

NOTE: Only the glass tube, the glass reservoir vessel, the rubber hose, the support ring & boss and the retort clamp are supplied. The retort stand and bosshead are not included in the kit.

**COMPONENT PARTS ARE:**

- 1 pce. Glass tube, 25mmDx1000mmL, with tail to accept the rubber hose.
- 1 pce. Glass water reservoir, 500ml, with tail to accept the rubber hose.
- 1 pce. Rubber hose, 1m long, to join the glass components.
- 1 pce. Metal ring 75mm diameter with boss to clamp to a retort stand.
- 1 pce. Retort clamp, for holding the vertical glass tube.

OPERATION:

Using a retort stand with the retort ring and retort clamp, support the glass components as shown in the picture.

The glass reservoir vessel is partly filled with water so that the water in the glass tube can be adjusted for height as the reservoir is raised and lowered up and down.

A metric scale is required to measure the length of the air column above the water in the glass tube.

The tuning fork (not supplied) can be used and held very close to the mouth of the tube to agitate the air column. As the air column length is altered, the points of resonance are heard by placing your ear close to the mouth of the glass tube.

At the resonant points, the sound becomes louder.

Refer to the physics text books for the experiments to be performed.

Designed and manufactured in Australia