

Student Spirometer

(Jointless Body 9 Liter)

Model # (AWS-300)

- 9 Liter Float
- Proven Design
- Strong, Lightweight Modern Materials

A general-purpose wedge-type Spirometer with a capacity of 9 liters. It is designed for teaching 'A' level, Medical and University classes the principles of Spirometry. It can be used in ascertaining: basal metabolic rate, flow exercise, Vital Capacity, Subdivisions of Lung Volume, Inspiratory and expiratory reserve volume, effect on ventilation of rebreathing CO₂, hyperventilation effect on breathing patterns etc.



The apparatus is manufactured from modern materials to a proven design which gives both strength and reliability. The float pivot and counter balance ensure precise movement over the float measurement range. The float capacity scale and associated pointer allow direct observation comparisons to be recorded and a thermometer sealed into the float records accurately the temperature of the float gases. Facilities are provided in the inside of the float to attach a pen to record float movement on a chart recorder. A two-way valve situated on the side of the spirometer allows the subject to be connected either to the spirometer or the atmosphere. This allows the subject to become accustomed to breathing through a mouthpiece and establish a regular breathing rhythm before starting experiments. A detachable soda-lime canister is mounted in a vertical position on the spirometer and may be inserted into the system if required. However, a closed system can be easily maintained without the canister, if the effect to rebreathing CO₂ is to be investigated. Flexible corrugated tubing; 30mm diameter is used to connect a mouthpiece to the spirometer via a unidirectional valve and the soda-lime canister. Small bore tubing is fitted for the purpose of tank drainage and to facilitate flushing the system with oxygen.

- Float 9 liters, subdivided into 0.1 liter
- Thermometer -10 to +110 C x 1 C
- Dimensions (17.5 x 18.5 x 8 in) (length x width x height)
- Mass 6.5 kg

This Spirometer is supplied complete with two lengths of corrugated tubing, noseclips, tube clamps, mouthpiece, pens with lever, soda lime canister and instruction manual.

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