

## LIQUID SEDIMENTATION APPARATUS

H311

A self-contained, benchtop apparatus of transparent sediment columns for studies into the settling characteristics of suspended solids and the display of particle wall effects.



### KEY FEATURES

- Compact, benchtop apparatus to study how particles settle in liquid
- Finds settling characteristics and particle sizes of suspended solids
- Five identical sedimentation columns for comparison of different sediments
- Translucent rear panel with back lighting for better visibility
- Includes stopwatch, measuring beakers and specific gravity bottle
- Ideal for classroom demonstrations and student experiments

# LIQUID SEDIMENTATION APPARATUS

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## DESCRIPTION

The benchtop apparatus consists of five long, transparent sedimentation columns mounted on a rigid frame.

The rear panel is translucent, with LED back lighting to improve observation of settling sediments in the columns. The columns are removable for filling before tests. A graduated scale on the rear panel allows students to measure settlement depth.

Supplied with the equipment is a stopwatch to find settling times, a specific gravity bottle, measuring beakers and five rubber bungs. The rubber bungs seal the ends of the columns when the students shake the liquid and particles (slurry) before an experiment.

## STANDARD FEATURES

- Supplied with a comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives
- ISO9001 certified manufacturer

## LEARNING OUTCOMES

- Comparison of settling characteristics of different sediments
- Determination of the effect of concentration on settling characteristics (hindered settlement)
- Determination of velocity distribution curves
- Comparison of flocculent and particle suspensions
- Determination of particle size distribution (grading curve) by liquid sedimentation

## OPERATING CONDITIONS

### OPERATING ENVIRONMENT:

Laboratory

### STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

### OPERATING TEMPERATURE RANGE:

+5°C to +40°C

### OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

## ESSENTIAL SERVICES

### ELECTRICAL SUPPLY:

Single Phase, 100-240 VAC, 50/60Hz, 1A

(specify on order).

### BENCH SPACE NEEDED:

Approximately 850 mm x 600 mm

## SPECIFICATIONS

TecEquipment is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

### NETT DIMENSIONS AND WEIGHT:

Height 1200 mm (with glass tubes fitted)

Width, 820 mm Depth, 515 mm and 42 kg

### PACKED DIMENSIONS AND WEIGHT:

0.6 m<sup>3</sup> and 50 kg

### COLUMNS:

1 m long, 50 mm nominal diameter