

Product Name :
Model Sedimentation Tank Experiment**Product Code :**
Water0002**Description :**

Model Sedimentation Tank Experiment

Technical Specification :

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Specification of Model Sedimentation Tank

- A rigid acrylic settling tank of 80L capacity can be fed by a mains water or a slurry supply. Slurry is pumped from a 120L sump tank via a centrifugal pump. A sparging device in the sump tank keeps the slurry in suspension.

- Both supplies are fitted with a flow meter. Mains water flow meter range 0.5 - 5.0 liters/min; slurry flow meter range 0 - 2 liters/min.
- A dye injection system is incorporated to allow hydraulic tracer and flow visualization studies.
- Measuring flow regimes using a dye tracer and comparison of these with idealized flow models.
- Effect of variables such as flow rate and baffle position on flow regimes.
- Measurement of sediment removal efficiencies.

Description of Model Sedimentation Tank

1. Water

is taken from the laboratory mains supply and is fed to the settling tank via a flow meter. For studies of sedimentation, a slurry is prepared in a sump tank and pumped via a specially designed flow meter to join the fresh water stream just before entry to the settling tank.

2. A

well-mixed slurry of known concentration and flow enters the tank uniformly under an inlet weir. This may be comparatively analyzed by the Imhoff cone technique or more accurately by drying and weighing. The sump tank is continually agitated by a flow sparge device to prevent settling of solids during an experiment.

3. For hydraulic tracer

and visualization studies, an accurate dye injection system is provided. A known volume of dye solution is injected just before the entry to the settling tank.

Electrical and Electronics

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