Product name:	Product code:
Model of Sedimentation Tank	Environmental0003



Description

Model of Sedimentation Tank

Technical specification

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

Recommended Accessories
Atico Sedimentation Studies Apparatus to characterise settling regimes of selected suspension
Precipitated calcium carbonate
Balances
Colorimeter – 7 narrow band-pass filters covering wavelengths 450 to 700mm

Services Required
Electrical supply:
220-240V/1ph/50Hz
120V/1ph/60Hz
Water supply: 22 litres/min @ 1 bar

Overall Dimensions
Height: 1.55m
Width: 1.90m
Depth: 0.60m

Shipping Specification
Volume: 2.9m3
Gross weight: 310kg

Model of Sedimentation Tank 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. A well-mixed slurry of known concentration and flow enters the tank uniformly under an inlet weir. This may be comparatively analysed 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. For hydraulic tracer and visualisation studies, an accurate dye injection system is provided. A known volume of dye solution is injected just before the entry to the settling tank.

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Technical Details
Settling tank: 1000 x 400 x200mm
Sediment sump tank capacity: 120 litres
Water flow meter range: 0.5-5l/min
Sediment suspension flow meter range: 0-2l/min
Pump flow rate: 25l/min at 5m head
Motor: 0.1kW

Ordering Specification
• 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.