

Product Name :
Mobile Bed and Flow Visualisation Tank

Product Code :
ALABS-A113-008



Description :

Mobile Bed and Flow Visualisation Tank

- A self contained recirculating water tank for flow visualisation and mobile bed studies.
- The tank is manufactured from glass reinforced plastic and all components in contact with water are of non-corroding materials.
- The working section has minimum dimensions of 2m(4m) x 610mm and the flow range is 0-3.5 litres/sec.
- Fifteen models and accessories are included as standard and a sheet of coloured glass allows rapid changeover from mobile bed to flow visualisation mode.
- All controls are housed in a portable console which includes a flexible cable and water safe connectors.

Description:

The tank is moulded from self coloured Oxford Blue glass fibre reinforced plastic with steel reinforcements to provide rigidity. It is manufactured in three sections; the inlet tank, the working section and the discharge reservoir tank. The sections are

joined by flanged connections and despatched from the factory as a complete assembly. A drop-tight adjustable overshoot weir with upstream sand trap is accommodated within the discharge tank. The inlet tank features a perforated baffle plate which spreads the flow evenly across the width of the table.

A removable glass sheet coloured blue on one side, white on the other, is provided to cover the sand bed when flow visualisation experiments are in progress. A pair of adjustable aluminium instruments rails are fitted to the top of the tank. These extend over the full length of the working section and one rail carries a positioning scale.

The depth gauge supplied is used to measure the water level and to map the contours of the sand bed produced during exercises. It is provided with a stainless steel hook and point and incorporates a Vernier scale enabling levels to be determined accurately.

Technical Specification:

Working area: 2 metres x 610mm or 4 metres x 610mm

Max water depth: 120mm

Thickness of sand bed: 60mm

Flow range: 0-3.5 litres/sec

Sump capacity: 300 litres

Accuracy of flow metering: $\pm 1.5\%$ of full scale deflection



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