

**Product Name :**  
River Flow Simulator**Product Code :**  
ALABS-A113-015**Description :****River Flow Simulator**

- A self-contained river flow simulator for the study and visualisation of river formations, bedload studies and fluvial geomorphology
- Stainless steel tank with a 2150mm x 900mm working area
- Tank mounted on a steel frame with jacking system to easily and safely adjust the tank slope while fully loaded
- Uses sand as the media for detailed feature development and bedload motion studies
- Water inlet vessel with stilling can be positioned anywhere in the tank
- Water reservoir, submersible pump, variable area flow meter and control valve giving flows from 1.5 to 15l/min
- Supplied with comprehensive instruction manual.

**Features:**

- Robust stainless steel tank
- Uses sand for realistic and highly detailed feature formation
- Sturdy frame with dual jacks to vary slope
- Stilled water inlet vessel, featuring variable positioning
- Variable height exit
- Self-contained, includes pump and water reservoir
- Variable flow, with flow meter

### **Description:**

The unit comprises a rectangular tank, made of stainless steel, measuring 215cm by 90cm. The tank is positioned and secured on a metal supporting frame. A manual jacking system enables the slope of the tank to be easily and safely adjusted, even when the tank is full of material and water.

The sturdy construction enables real sand to be used in the tank. This gives fine detailed and realistic feature simulation not obtainable on systems, which use plastic pellets. In this way all principles of river formation and bed load motion can be studied. For best results the use of washed and graded sand is recommended.

The water reservoir is located at the tank discharge, and water is pumped from the reservoir to the water inlet vessel using a low voltage submersible pump.

The inlet vessel is a 1.8l vessel, which can be positioned anywhere in the main tank. It is kept in its desired position by the sand within the tank. The vessel incorporates a stilling mechanism and an outlet weir designed to produce a smooth output water flow into the main tank.

### **Technical Specification:**

**Working area:** 2150mm x 900mm

**Flow range:** 1.5-15l/min

**Accuracy of flow metering:** ±2% full-scale

**Slope adjustment – working slope:** 0 – 6°, 10° max



## Equipments Exporters

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