

HF 502 SEDIMENT FLOW CHANNEL, 75 mm. wide

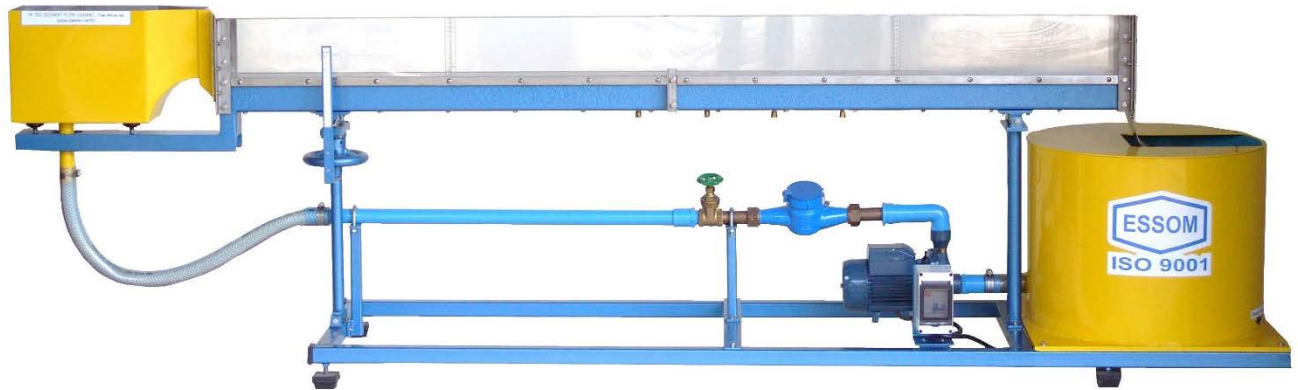
GENERAL DESCRIPTION:

This is a self-contained bench top open channel for studying bed forms with change in flow and slope as well as flow phenomena without sediment.

The channel is of a rectangular cross-section supported by steel frame. The channel sides are made of clear acrylic with tilting controlled by a manual screw jack. A stainless-steel head tank with a stilling baffle provides a smooth flow.

The water is discharged from the channel via a built-in rectangular weir to the storage tank. A fine strainer is provided in the storage tank to trap the sand sediment.

Instruction manual is also included.



EXPERIMENT CAPABILITIES:

- Fixed smooth bed flow.
- Flow over mobile sand bed.
- Flow structures.
- Local scour.
- Mechanics of sediment transport.
- Bed form hysteresis.
- Depositionary features and fancies.
- Computational work.
- Flow over fixed gravel bed.

TECHNICAL DATA:

- Channel size : 75 mm wide x 15 cm high x 1.5 m long
- Tilting adjustment : 0 to +10 %
- Channel bed : Stainless steel
- Side walls : Clear acrylic with clear vertical scale
- Sediment : Fine grade sand
- Flow measurement : Water meter and stop watch
- Software for data display and analysis by computer (separately supplied).
- Power supply : 220 V, 1 Ph, 50 Hz. Other power supply is available on request.

STANDARD ACCESSORIES:

- Sharp crested weir.
- Adjustable undershot weir.
- Bridge pier.
- Stainless steel hook and point gauge.

OPTIONAL EQUIPMENT:

- Channel length can be extended on request
- HP 010 Flow digital display
- Washed sand 10 kg (Thailand market only)
- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unpacked) Shipping Dimensions WxLxH : 55 x 275 x 80 cm
Net Weight : Approx. 92 kg

