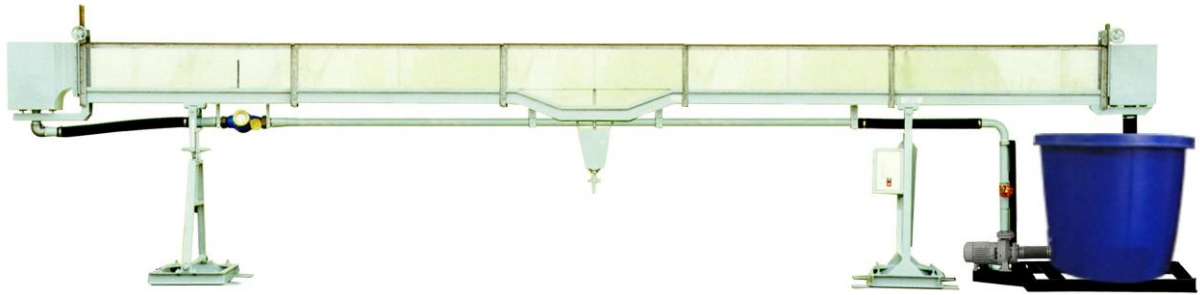


HF 515A TILTING FLOW CHANNEL, 150 mm wide, Adjustable bed.



INTRODUCTION:

The settlement of river water sediments over a long period of time results in a shallow river bed. Occasional dredging may be required to deepen the river bed for navigation purpose. The adjustable bed flow channel allows a study of flow under the simulated shallow and deepened river bed.

GENERAL DESCRIPTION:

This is a self contained open channel designed for studying flow phenomena with change in bed slope. It is to be used with optional accessories and models below. The channel is of rectangular cross section supported by rectangular steel frame. Side walls are transparent to allow full observation and are supported by adjustable steel brackets to ensure accurate wall alignment. Tilting can be adjusted by a manual screw jack. The middle section of the bed can be adjusted manually upward or downward by a screw. A head tank with a stilling baffle provides a smooth flow and water is returned to the storage tank via an end tank. Models are attached to the top edges or bed of the flume by screws. Screw holes at the bed can also be used for pressure tapping to measure pressure loss along the channel length.

TYPICAL TESTS:

- Open channel flow.
- Hydraulic jump.
- Discharge under sluice gate.
- Flow measurement.
- Continuity and energy equations.

TECHNICAL DATA:

- Channel size : 150 mm wide, 350 mm high and 6 m long or as required.
- Tilting adjustment : -1 % to + 3 %.
- Side walls : Clear acrylic or tempered glass with clear vertical scale.
- Channel bed : Stainless Steel.
- Bed adjustment : Upward and downward.
- Head tank : Stainless steel.
- End tank : Stainless steel.
- Sluice gate : Stainless steel, built in at downstream end of the channel.
- Flow measurement : Water meter and stop watch.
- Power supply : 220V 1Ph 50 Hz. Other power supply is available on request.

OPTIONAL ACCESSORIES AND MODELS:

- HF 515-019 Stainless steel hook and point gauge
- HF 515-020 Basic weir plate with stainless steel 60° V notch and rectangular notch weir attachment.
- HF 515-022 Sharp crested weir
- HF 515-023 Broad crested weir, sharp edges.
- HF 515-024 Crump weir.
- HF 515-025 Trapezoidal weir.
- HF 515-030 Ogee weir
- HF 515-031 Dam spillway
- HF 515-033 Syphon spillway
- HF 515-034 Bridge pier, round or square.
- HF 515-035 Culvert fittings: round or square, horizontal or drop-inlet with or without entrance flare.
- HF 510-036 Vibration pile.
- HF 515-040 Venturi flume
- HF 515-050 Sluice gate, rack and pinion drive with stainless steel attachment.
- HF 515-051 Sluice gate, sliding type with stainless steel attachment.
- HF 515-052 Radial gate, rack and pinion drive, with stainless steel attachment.
- HF 515-060 Pitot tube with manometer board
- HF 515-061 Current meter: digital or analog indicator
- HF 515-070 Roughened bed, gravel, sand, or corrugated, 1.2 m.
- HF 515-080 Wave generator with variable speed geared motor.
- HF 515-081 Motorized tilting.
- HF 515-082 Absorbing beach, plain, roughened, or permeable, 1.2 m.
- HP 010 Flow digital display.
- Other accessories and models can be supplied on request.

Net (unpacked) shipping dimensions WxLxH : 100 x 700 x 160 cm
Net weight : Approx. 620 kg

