

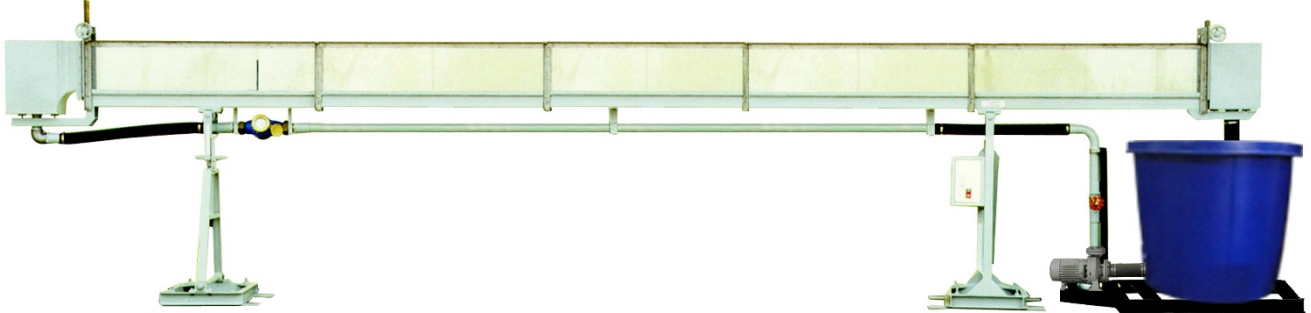
HF 515 TILTING FLOW CHANNEL, 150 mm wide

GENERAL DESCRIPTION:

This is a self contained open channel designed for studying a flow phenomena. It is a service unit 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. 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.

Instruction manual is also included.



EXPERIMENT CAPABILITIES (Optional accessories and models required):

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

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 tempered glass with clear vertical scale
- Channel bed : Stainless Steel
- Head tank : Stainless steel
- End tank : Stainless steel
- Sluice gate : Stainless steel, rack and pinion type, built in at downstream end of the channel
- Flow measurement : Water meter and stop watch
- Software for data display and analysis by computer (separately supplied).
- Power supply : 220V 1Ph 50 Hz. Other power supply is available on request.

OPTIONAL ACCESSORIES AND MODELS:

- HF 515-019 Stainless steel vernier hook and point gauge 450 mm x 0.05 mm reading
- HF 515-019A Stainless steel hook and point gauge 450 mm x 0.5 mm scale
- 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 515-023A Round edge attachment for HF515-023
- HF 515-024 Crump weir
- HF 515-025 Trapezoidal weir
- HF 515-030 Ogee weir consisting of base profile unit with both upstream and downstream pressure tappings and manometer board
- HF 515-031 Dam spillway consisting of base profile unit with different interchangeable downstream sections:
 - Toe, ski jump, piers and pegs, gravel box, or stop logs
- HF 515-033 Syphon spillway made from clear acrylic and PVC
- 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 515-036 Vibration pile
- HF 515-040 Venturi flume made from clear acrylic with stainless steel attachment.
- 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 for measurement of flow velocity at various channel sections
- HF 515-061 Current meter
- 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.
- Other optional equipment, please contact manufacturer (essom@essom.com)

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

