

Hydraulic Bench (EDC-FM-100)

SPECIFICATIONS:

- Hydraulic Bench is base module for supplying water for experimental units in fluid mechanics lab.
- Main Structure is built completely in stainless steel while Storage tank, measuring tank and work surface made of GRP.
- Closed water circuit with storage tank, water pump and measuring tank.
- Measuring tank divided in two sections for volumetric flow rate measurements.
- Work surface with integrated flume for experiments with weirs.



DESCRIPTION:

This EDIDAC product used in Fluid Mechanics Lab and Water supply related laboratories to supply controlled flow of water to a wide variety of laboratory experiment modules and apparatuses (available separately). This Bench has a large base tank to supply water to the modules and the closed water circuit consists of the underlying storage tank with a powerful water pump and the measuring tank arranged above, in which the returning water is collected. The Main Frame of this Hydraulic Bench is made of stainless steel and corrosion proof material. Both upper and lower tubs are made of fiberglass. It has a hand-operated water control valve adjusts the water flow rate from the pump. An electrical box on the side of the bench includes the electronic pump switch, circuit protection and a rotameter or digital LCD display of flow rate.

EDIDAC's Fluid Mechanics Software (SEFM-01) is available as optional manual data entry learning package. This Software has tool for displaying and processing the results after taking data manually from the user. It also includes manuals for all modules.

The unit is mounted on lockable wheels for easy movement. For checking water level inside tank, a sight gauge is also installed.



TECHNICAL DATA:

- Storage and supply tank:
 - Capacity: 160L.
- Measuring tank:
 - At large volumetric flow rates: 40L.
 - At small volumetric flow rates: 10L.
- Flow meter:
 - Variable area flow meter or Electronics flow meter
- Control Valves:
 - Main supply valve Hand operated water control valve of stainless steel
 - Discharge valve on the base of the upper tank for water recycling inside the supply tank
- Pump:
 - Power consumption: 370W. Max. flow rate: 80L/min. Max. head: 25m.

DIMENSIONS AND WEIGHT:

L x W x H (mm): 1250 x 800 x 1100 Approx.

Weight: 80 kg Approx.

SCOPE OF DELIVERY:

- 1 x EDC-FM-100
- 1 x Glass Beakers 1000mL Qty=02
- 1 x Stop watch
- 1 x Instructional Manual
- SEFM-01 Software (Optional)