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 corrasion 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:

Pump:

- Power consumption: 250W
- Maximum flow rate: 150 L/min
- Maximum head: 7.6m

Storage and Measuring Tanks:

- Storage tank capacity: Minimum 180L
- Large volumetric flow rate measuring tank: Minimum 60L
- Small volumetric flow rate measuring tank: Minimum 10L

Flume:

- Minimum dimensions: 530 x 150 x 180 mm (L x W x H)

Measuring Equipment:

- Measuring beaker with scale for very small volumetric flow rates: Minimum capacity 2L
- Stopwatch measuring range: 0 - 9h 59min 59sec

DIMENSIONS AND WEIGHT:

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

Weight: 80 kg Approx.

SCOPE OF DELIVERY:

- 1 base module
- 1 stopwatch
- 1 measuring cup
- 1 set of accessories
- 1 user manualSEFM-01 Software (Optional)