

Centrifugal Pump Test Bench (EDC-FM-130)

EXPERIMENTAL DATA:

- Accommodation with operating performance and features of a centrifugal pump through tests.
- Power and efficiency curves:
 - Measuring the electrical initiative power.
 - Determining the hydraulic power.
 - Scheming the efficiency.



DESCRIPTION:

A centrifugal pump is a powered device intended to move a fluid by means of the transmission of rotational energy from one or more driven rotors, called impellers. Fluid enters the quickly rotating impeller along its axis and is cast out by centrifugal force along its circumference through the impeller's vane tips.

There are three other different options in this apparatus:

- Variable speed of the pump.
- Transparent head of the pump.
- Pump with both variable speed and transparent head.



SPECIFICATIONS:

- Examination of Centrifugal Pump.
- Flow changing using valve at inlet.
- Pressure changing by changing valve position at outlet.
- Digital pressure and flow sensors.
- LCD Display for pressure and flow measuring values.
- Closed loop path for flow of water.
- Tank for the storage of water.
- Optional software with control functions and data acquisition via USB under Windows 8.1, 10.

TECHNICAL DATA:

- Centrifugal pump
 - max. flow rate: 25 L/min.
 - max. head: 5m.
- Water tank: approx. 15L.
- Power: 230V, 50Hz, 1 phase.
- Pump with the variable speed control Model: EDC-FM-130V. (Optional).
- Pump with the transparent head Model: EDC-FM-130T. (Optional).
- Pump with the transparent head & Variable speed Model: EDC-FM-130VT. (Optional).

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 600 X 600 X 600 approx.
- Weight: 80 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-FM-130
- 1 x Instructional Manual

