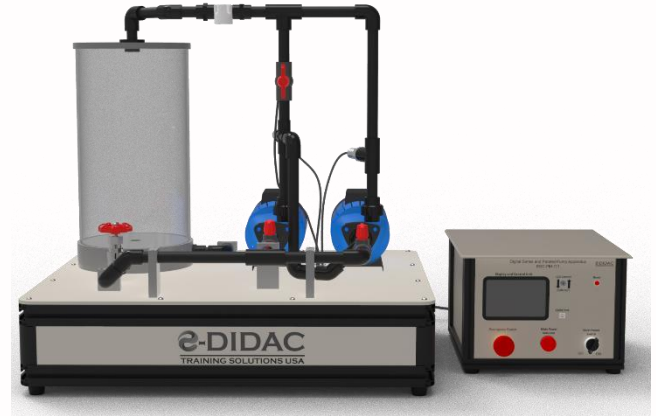


## Series and Parallel Pump Apparatus (EDC-FM-133)

### EXPERIMENTAL DATA:

- Working performance of centrifugal pumps
  - Single pump
  - Series formation
  - Parallel formation
- Determination of pump efficiencies
- Recording of system characteristic



### DESCRIPTION:

In compound systems, pumps can be linked in series or in parallel. In serial operation the heads of the pumps are added and in parallel operation the flow rates of the pumps are added. The tentative unit provides the fortitude of the characteristic behavior for single operation and interface of two pumps. The flow and pressure values displayed at the LCD. The flow can be changed by using manual operated valves. Series and parallel of pump changed by the combination of open close position of different valves present in the path of pumps.

There are three other different options in this apparatus:

- Variable speed of the pumps.
- Transparent head of the pumps.
- Pumps with both variable speed and transparent head.



## SPECIFICATIONS:

- Examination and functioning behaviour of pumps in various operating modes.
- Single pump, series or parallel pump operation, configurable via valves.
- Closed water circuit contains centrifugal pumps.
- Adjustment of flow resistance by a valve at outlet of the pump.
- Sensors for pressure at inlet and outlet of the pumps and flow rate.
- Display and evaluation of the measured values as well as operation of the unit.
- Optional software with control functions and data acquisition via USB under Windows 8.1, 10.

## TECHNICAL DATA:

- Centrifugal pump 1 & 2
  - max. flow rate: 25 L/min.
  - max. head: 5m.
- Water tank: approx. 15L.
- Power: 230V, 50Hz, 1 phase.
- Pumps with the variable speed control Model: EDC-FM-133V. (Optional)
- Pumps with the transparent head Model: EDC-FM-133T. (Optional).
- Pumps with the transparent head & Variable speed Model: EDC-FM-133VT. (Optional).

## DIMENSIONS AND WEIGHT:

- L x W x H (mm): 1200 X 900 X 600 approx.
- Weight: 80 kg approx.

## SCOPE OF DELIVERY:

- 1 x EDC-FM-133
- 1 x Instructional Manual

