CENTRIFUGAL PUMP STUDY BENCH

REFERENCE : MP73

Non contractual photo

SERVICE : POWER SUPPLY: 220V -50 HZ SINGLE PHASE - 2 KW WATER SUPPLY CLOSE TO THE BENCH FOR FILLING AND EVACUATION AT GROUND LEVEL FOR EMPTYING
DIMENSIONS : 1900 X 800 X 2000 MM

WEIGHT : ~ 120 KG

The MP73 bench allows the study of an industrial centrifugal pump alone or two pumps mounted either in series or in parallel. Designed to operate in a closed circuit, it is a complete experimental tool for studying the performance and characteristics of centrifugal pumps. With its feed tray, it is hydraulically autonomous and requires only a power supply. It can be easily used in a workshop or classroom. The bench has two similar centrifugal pumps but different powers. The speed of both pumps is regulated by an electronic dimmer with display of speed and power consumption. Complete instrumentation with pressure gauges and flowmeters allows you to determine the hydraulic power and plot the characteristic curves of the pumps.

- Study of two centrifugal pumps
- Determination of performance and characteristics of pumps
- Measurement of total head as a function of flow
- Measurement of the electrical power absorbed as a function of the flow rate and the speed of the pump
- Determination of hydraulic efficiency plot of characteristic curves
- Study of the series coupling of the two pumps
- Study of the parallel assembly of the two pumps

Technical specifications :

- The bench is built on a stainless steel frame and consists of:
- A feed tank with a useful capacity of 220 liters useful with emptying, two rackings and external level
- Two industrial single-cylinder centrifugal pumps in 304 stainless steel (identical rotors, but different powers) with asynchronous motor with three-phase cage and external ventilation. IP55 protection.
- The parallel connection allows to obtain flow rates close to 20 m3 / h and the assembly in series of the pressures higher than 2 bars.
- Two dimmers with speed display. These also allow the display of frequency, power consumption, intensity and voltage.
- Two float flowmeters
- Four manometers, two at the suction and two at the pumps
- An electrical cabinet for pump control, dimmers
- PVC piping and valves
- Technical and pedagogical manual