

STUDY BENCH OF FOUR INDUSTRIAL PUMPS

REFERENCE : MP79CR



Non contractual photo

**SERVICE : POWER SUPPLY: 400V - 50 HZ
THREE-PHASE, 1.5 KW
DIMENSIONS : 2050 X 1080 X 2010 MM
WEIGHT : ~350 KG**

A pump supplies energy to the flow of a fluid by increasing its load. It is a necessary component for any pipe installation and its choice must be judicious to be adapted to the network to be supplied. The MP79CR bench, designed to operate in a closed circuit, is a complete experimental means for studying the performance and characteristics of pumps. It allows the study of four pumps of different designs. With its feed tray, it is hydraulically autonomous and requires only a power supply. The speed of the pumps is regulated by an electronic variator with display of the speed and the power consumed. Complete instrumentation with manometers and flowmeters makes it possible to determine the hydraulic power and plot the characteristic curves of each of the pumps :

- Study of four mounted water pumps
- Determination of the performance and characteristics of the pumps:
Measurement of the total head as a function of the flow;
Measurement of the electrical power absorbed as a function of the flow rate and the speed of the pump; Performance determination;
Plotting dimensionless characteristic curves
- Study of the technology of each pump

Technical specifications :

- A stainless steel frame
- A feed tank with emptying, two rackings and visualization of the level from the outside
- Horizontal centrifugal pump
- An axial pump, sparrow type
- A piston pump with pulse damper
- A turbine pump
- A dimmer / cruise control with speed display. It also displays the frequency, power consumption, intensity and voltage of the pump. A switch selects the pump to study.
- Two float flowmeters for low or high flow
- Three Bourdon manometers: one at the suction and two at the repression
- An electrical cabinet for controlling the pumps, the drive and its display.
- PVC piping and valves
- Technical and pedagogical manual