



Non contractual photo

**SERVICE : POWER SUPPLY: 380 V THREE-PHASE -1.5 KW WATER SUPPLY NEARBY
DIMENSIONS : 1900 X 800 X 2000 MM**

WEIGHT : 150KG

REFERENCE : MP71

The bench allows the study of an industrial centrifugal pump. Designed to operate in a closed circuit, it is a complete experimental tool for studying the performance and characteristics of centrifugal pumps. With its bins, it is autonomous and requires only a power supply. It can be easily used in a workshop or classroom. The speed of one of the pumps is regulated by an electronic variator with display of the speed and power consumption. Complete instrumentation with manometers and flowmeters makes it possible to determine the hydraulic power and plot the characteristic curve of the pump.

- Study of a centrifugal pump adapted to the field of water treatment
- Determination of performance and characteristics of a centrifugal pump
- Measurement of the 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
- Plotting of characteristic curves
- Study of cavitation

Technical specifications :

The bench is built on a stainless steel frame with aluminum nuts, equipped with 4 swivel castors, including 2 self-locking, and consists of :

- 2 capacity bins of capacity 100 liters each, with emptying, 2 draw-offs, stabilizing partition (load and suction mountings)
- 1 industrial single-cylinder centrifugal pump in 304 stainless steel with three-phase asynchronous cage motor and external ventilation. IP55 protection.

This pump is managed by electronic dimmer: Power 1,1 kW, 2900 rpm, Maximum height: 20 m, maximum flow: 20 m³ / h. The housing that contains the turbine has a polycarbonate opening for viewing cavitation :

- 2 float flowmeters (300-3000 L / h and 2500-25000 L / h)
- 1 Manovacuumeter
- 1 Manometer
- 1 Thermometer
- Transparent piping at the suction of the pumps
- 1 additional turbine
- Painted steel electrical cabinet, comprising: the variator; Control and protection of the pump; Power LED; The emergency stop; The lockable disconnecter