

STUDY BENCH OF A PUMP

REFERENCE : PS74

Educational Objectives :

- Study of a single pump,
- Determination of characteristic curves (suction and discharge)
- Study of the flow / pressure relationship
Study of the influence of the suction height
- Influence of rotational speed on flow
- Measurement of the electrical power absorbed by a pump
- Measurement of the mechanical power absorbed by a pump
- Calculation of the efficiency of a pump
- Highlighting the cavitation phenomenon

Technical specifications :

- A launch tank, a drain valve
- A centrifugal pump with stainless steel body mounted on anti-vibration mounts. This pump is mounted in balance for measuring the mechanical power absorbed
- A transparent PVC suction unit with strainers and valves
- PVC discharge set with diaphragm type control valves
- 2 pressure measurements:
 - A mano-vacuumeter
 - A Manometers
- 1 float flowmeter
- Integrated wattmeter with digital indicator
- A speed measurement of the pump with proximity switch and digital indicator
- An electronic frequency converter with control potentiometer
- An IP55 control cabinet with main switch with indicator, fuses, punch-type emergency stop, "on / off" button
- 304L stainless steel tube frame and aluminum nuts



Non contractual photo

**SERVICE : 230 V / 50 HZ / SINGLE PHASE:
0.5 KW COLD WATER 20 ° C / 3 BAR (FOR
FILLING) SEWER: FOR EMPTYING
DIMENSIONS : 2010 X 640 X 1840 MM**

WEIGHT : ~ 120 KG