

## STUDY OF A WATER BOOSTER



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### Experimental capabilities

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- Identification of the components of a water booster installation
- Commissioning and functional control of the installation
- Adjustment of the water booster and study of the operation at different speeds
- Study of pumps
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## Operating principle

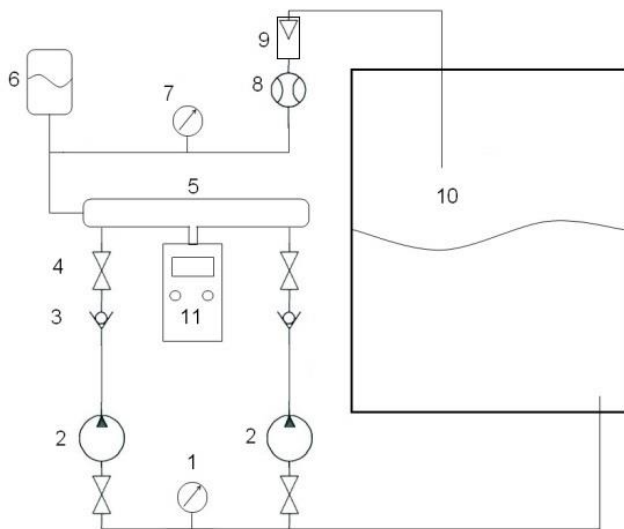
The bench SUR 010 allows the study of a water booster. It is composed of a buffer tank, water booster group with two pumps and expansion tank, a control box, the instrumentation allowing the study and all the components necessary for the operation. The user himself will identify all the components of the installation and commissioning, adjustments and analysis of operation.

The robust design of this device makes it suitable for use in schools.

The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.

The manufacture of this equipment complies with the European standard for machinery manufacturing.

## Illustrations



## Technical details

1. Water booster manometer vacuum -1 to 0 bars
2. Water booster pump
  - 2 multicellular pumps 0.55 kw
  - Max flow: 9.6m<sup>3</sup>/h
  - HMT max : 33m CE
3. Return valve
4. Stop valve for isolating pump
5. Output collector
6. Expansion tank
7. Discharge water booster manometer 0 to 4 bars
8. Diaphragm flow control valve
9. Float flowmeter 0-10 m3/h
10. Buffer tank
11. Control box of water booster

## Services required

- Electrical supply : 230 Vac – 50 Hz – 20 A
- Electrical network : 1 phase(s) + Neutral + Earth.
- Water supply : filling the tank
- Dimensions: (LxWxH mm): 1700 x 800 x 1700
- weight (Kg): 250

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

## Documentation

- User's manual
- Technical documentation of the components
- Wiring diagram
- Fluidic diagram
- Lab exercises
- Certificate of conformity CE