

CAVITATION TEST UNIT



Experimental capabilities

- **Study of cavitation processes**
- **Visualization of the formation of vapor bubbles in a Venturi tube**
- **Bernoulli's theorem**

Operating principle

The PBV020 allows the study of cavitation in a venturi tube. The principle is to create a strong depression when water passes through a venturi tube in order to create cavitation. The bench is composed of a hydraulic network, the instrumentation necessary for the study (pressure gauges, flow meter) and a venturi tube made of transparent material.

The whole is installed on a frame equipped with non-slip feet intended to be placed on a table.

The rugged design of this equipment makes it perfectly suited for use in a school setting.

Its anodized aluminum structure gives it a very high robustness as well as great flexibility of integration into your premises. The manufacture of this equipment complies with the European Machinery Directive

This equipment can be used alone or in combination with other compatible equipment in our range (see last part of this document).

Illustrations



Technical details

1. Aluminium profile structure equipped with 4 non-slip feet
2. Transparent pressure PVC hydraulic network
3. Adjustable pressure reducer 0.5 to 3 bar
4. Upstream Adjusting Ball Valve
5. Float Flow Meter 100-1000L/h
6. Hydraulic Pressure Gauge 0-2.5bars
7. Venturi tube made of transparent plastic
Inlet diameter 18mm
Narrowest diameter 3.5mm
8. 3 pressure gauges on the venturi tube -1 to 1.6 bars
9. Downstream control ball valve

Services required

- Water supply : 17 L/min – 2 bars
- Water drain : on the floor
- Dimensions: (LxWxH mm): 700 x 400 x 950
- weight (Kg): 30

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
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Hydraulic diagram
- Certificate of conformity CE

Options

- Water supply unit

- Ref : UTL050