BOR100

OSBORNE REYNOLDS APPARATUS



Experimental capabilities

- **Visualisation of the flow condition in a transparent tube**
- **Calculation of the Reynolds number**
- **Characterization of the flow (laminar, transient, turbulent)**

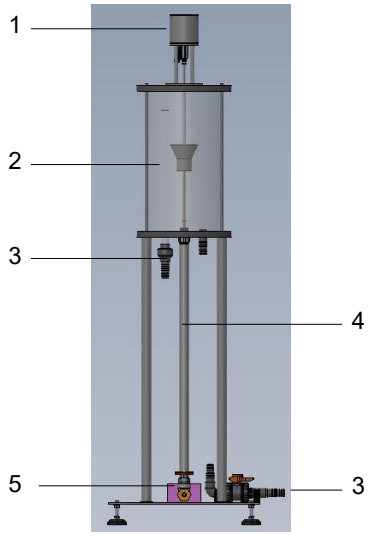
DIDATEC– Zone d'activité du parc – 42490 FRAISSES- FRANCE
Tél. +33(0)4.77.10.10.10 – Fax+33(0)4.77.61.56.49 – www.didatec-technologie.com
email : service_commercial@didatec-technologie.com
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BOR100

Operating principle

This unit includes a frame with a tank for ink, a tank for the water stabilization, a transparent pipe (10mm diameter) and a valve to control the outlet flow.
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 unit comes complete with instrumentation and includes technical manual and lab exercises.
The manufacture of this equipment complies with the European standard for machinery manufacturing.
This equipment can be used alone or with other compatible equipment from our range (see last section of this document).

Illustrations



Technical details

1-Ink tank
Volume 250 ml
Flow Control Valve
Dye injector in the test tube

2-Upstream stilling tank
Volume 10 L
Glass bead for tranquillization
Test tube inlet cone

3-Water inlet and overflow drain

4-Transparent test tube
Diameter: 10 mm
Length: about 400mm

5-Drain valve
Flow adjustment inside the test tube

Accessories
The study bench is supplied with:
- a stopwatch
-1 liter of ink
- a flow measurement pot

Services required

- Water supply: 15 L/min - 3 bar (network)
- Dimensions: (LxWxH mm): 400 x 400 x 1150
- 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
- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE

Compatible add-on equipment

- Utility unit
- Ref : UTL 050

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