

1. General

The unit allows to study the hydraulic and efficiency characteristics of the sedimentation by means of a special rectangular section tank.

The sludge, which is kept in suspension in the preparation tank by a stirrer, is sent to the sedimentation tank by a variable speed peristaltic pump together with a water flow rate adjusted through a manual valve.

The unit is fitted with an ink injecting device in order to visualize the flow lines obtained in the settling tank.

The group is supplied with manuals which describe all parts of the unit, the installation and utilization procedures, as well as many exercises with the relative results.

2. Technical details

- Wheeled frame
- Settling tank made of transparent Plexiglas: 1000mm x 400mm x 200 h mm
- Suspension preparation tank: 100 l capacity
- Flow meter: 0 – 300 l/h
- Variable speed peristaltic pump, 0.09 kW, 120 l/h max
- Electric stirrer: 87 rpm
- Ink injector device
- No. 2 Imhoff cones

3. Experiments

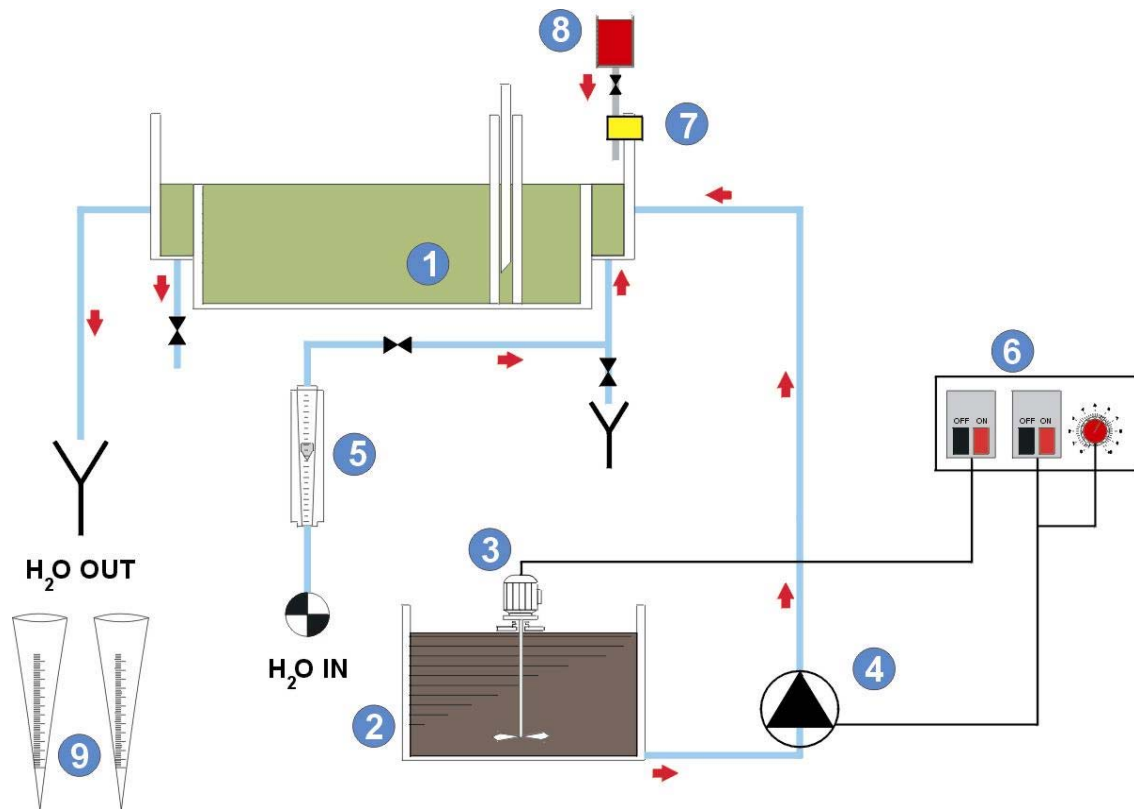
- Efficiency vs feeding flow rate.
- Efficiency vs concentration of settling solids.
- Efficiency vs input effects.

4. Required services

- Electrical power supply: 220/240 V single phase, 50/60 Hz; 0.2 kW
- Water supply from mains: 300 l/h

5. Weight and dimensions

- Dimensions: 1500 x 600 x 1400 h mm
- Weight: 70 kg



Key of the drawing

1. Settling tank
2. Suspension preparation tank
3. Stirrer
4. Supply pump
5. Flow meter
6. Electric board
7. Ink injector
8. Ink reservoir
9. Imhoff cones

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In any time and without notice, Didacta Italia can carry out any appropriate modification on the product details, always maintaining their main features, according to the designing and teaching necessity.