

GPB SD5

Decantation unit (sedimentation)

DESCRIPTION

- The purpose of this unit is to separate solid particles suspended in a liquid by allowing them to settle under their own weight.
- The unit allows for the study of hydraulic characteristics to be considered when using a decantation tank on a small scale.
- Continuous process.
- This system is easy to use.
- This unit is designed for various levels and fields of study.
- Technical documentation and instructions are provided.

SUGGESTED APPLICATIONS

- Observation of the phenomenon of settling and decanting.
- Determination of the types of decantation
- Determination of the flow nature
- Construction of the sedimentation curve
- Influence of agitation in the pre-tank
- Determination of the decantation rate

GPB SD5

1- Decantation tank

- Volume = 100 L (1000 x 500 x 200)
- Plexiglass
- 2 drain points and overflow for the cleared water

2- Homogenizing area

- Partitioned for the overflow
- Agitator with speed control (0-1000 R.P.M.)
P = 80 W (torque 100 Ncm)
- Volume = 1 L

3- Supply pump

- Electromagnetic centrifugal pump
- P = 0.37 kW
- Polypropylene body
- Rotameter : 0 – 1500 L/h

4- Supply tank

- Polypropylene – 150 L

5- Agitation of the supply tank

- Pneumatic with distribution rail in the tank
- Pressure reducing valve, 0-2 bar (30 psi) and adjustment valve

6- Sludge recovery tank

- Polypropylene
- Volume 50 L

7- Water emptying system

- With pressure reducing valve (0-3 bar, 45 psi)
- Adjustment valve
- Flow meter 0-1500 L/h

Imhoff settling cones are provided

FRAME

Extruded aluminum section

UTILITIES

Electricity : 220 V – 50 Hz

Drainage

Water : 2 m³/h max -3 bar (45 psi)

DIMENSIONS AND WEIGHT

Length : 2000 mm

Width : 600 mm

Height : 1500 mm

Weight : 110 kg