

GPB T50

Effluent treatment unit in anaerobic element

DESCRIPTION

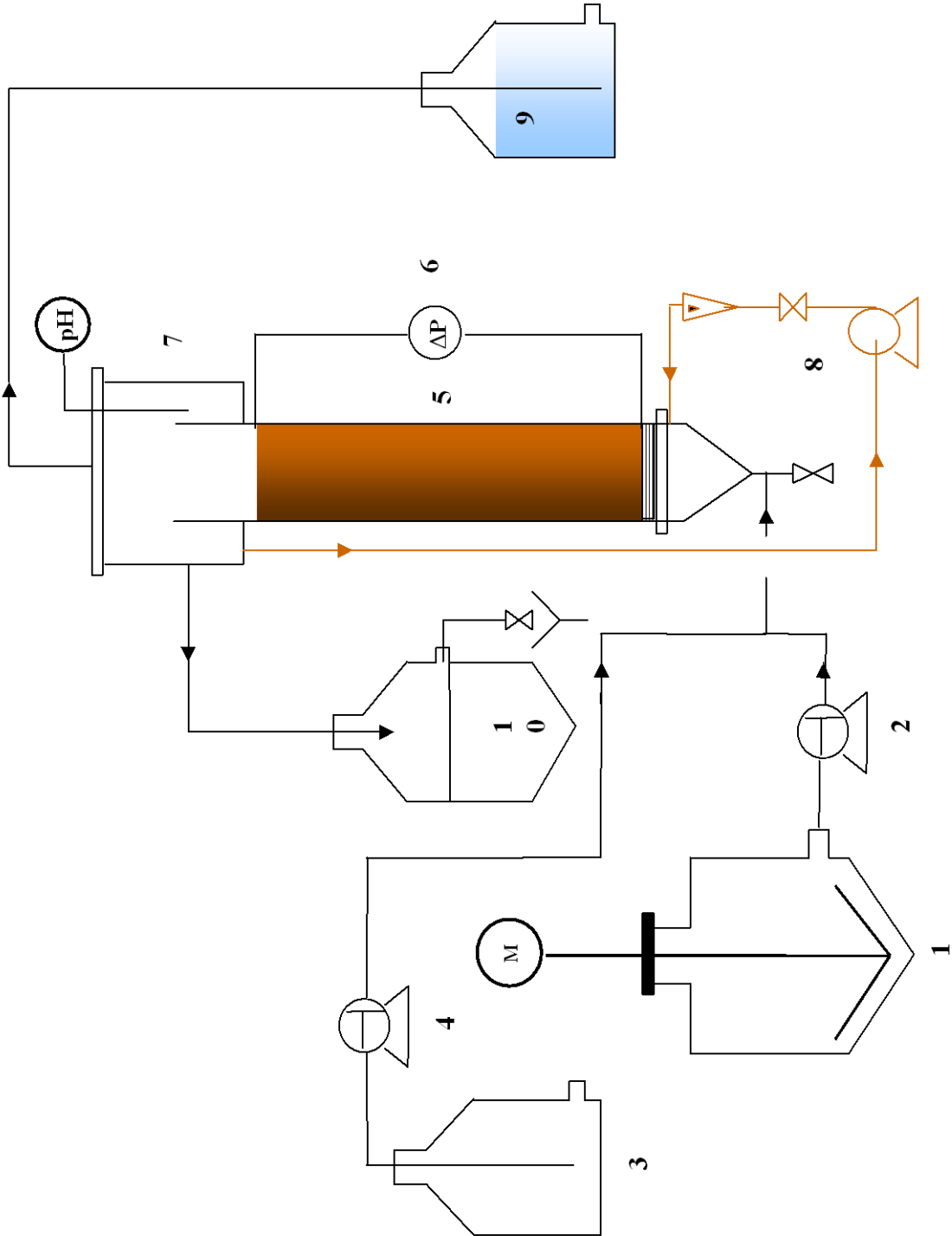
- This unit provides the anaerobic environment in which, micro-organisms can digest pollutants found in the water. One of the products of the reaction is oxygen.
- The process is carried out by adding water, requiring treatment, to a solid-liquid fluidised bed.
- The unit is mounted on an extruded aluminium section (or stainless steel if desired) with small wheels.
- This unit is designed for various levels and fields of study.
- Technical documentation and instructions are provided.



SUGGESTED APPLICATIONS

- Determination of the conditions for anaerobic treatment
- Determination of the COD with test tubes
- Nature of bacteria or yeast and their development in an anaerobic medium
- Nature of the pollutants
- Determination of the staying time of the sludge
- Capability for decantation

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TECHNICAL CHARACTERISTICS

1- Supply tank

- PVC or 316 L stainless steel on request
- Volume : 20 L
- Agitation system with speed control
0-2000 R.P.M. at 100 Ncm and an anchor-shaped modulus

2- Supply pump

- Dosing pump with diaphragm
- Flow rate 5 L/h maximum at 3 bar (45 psi)
- Polypropylene or 316 L stainless steel body

3- Supply tank for the reagents

- For the chemical neutralization of the digester
- High density polyethylene
- Volume : 10 L

4- Supply pump for the reagents

- Dosing pump with diaphragm
- Flow rate 5L/h maximum at 3 bar (45 psi)
- Polypropylene or 316 L stainless steel body

5- Digester or biological reactor

- PVC column
- DN 100 – Length 1000 mm
- Trickling filter on sequenced padding (multichannel tube section – $180 \text{ m}^2/\text{m}^3$) Cloisonyle™

6- Pressure losses manometer

- Manometer in U to measure the pressure losses of the trickling filter

7- Overflow and measurement bell

- pH probe with indicator
- With respiration tube and low point for the recirculation
- guiding overflowing effluents toward a decanter

8- Effluents recovering pump

- Centrifugal pump $P = 0.37 \text{ kW}$
- AISI stainless steel body - 316 L
- Maximum flow rate : 1500 L/h at 1.5 bar (23 psi)
- Rotameter: 0-500 L/h

9- Effluents tank

- Effluents recovered by decantation
- PVC
- Volume 20 L

10- Gas recovery tank

- By bubbling through
- High density polyethylene
- Volume 15 L

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OPTION

Bain à sec + photomètre pour mesurer la DCO

UTILITIES

Electricity : 230 VAC – 50 Hz

Drainage

Network water

DIMENSIONS AND WEIGHT

Length : 1500 mm

Width : 600 mm

Height : 1550 mm

Weight : 92 kg