ANAEROBIC WATER TREATMENT PILOT PLANT

Mod. BIO1c/EV

INTRODUCTION

This pilot plant consists of a reactor with built-in settler.
Sludges are fed and recycled by two peristaltic pumps; a compressor will recycle gas from the top to the bottom of reactor keeping biomass stirred.
Data acquisition is carried out by a specific software.

TRAINING PROGRAM:

The process unit enables to develop and analyze the following issues:

- Purification efficiency versus the following parameters:
  - recycle ratio
  - digester temperature
  - organic load
  - pH and rH

TECHNICAL CHARACTERISTICS:

- AISI 304 stainless steel framework with castors
- Feed tank, 80 l capacity
- Transparent plastic cylindrical digester with settler, 15 l capacity
- Peristaltic feed pump
- Sludge recirculation peristaltic pump
- Diaphragm compressor with body of stainless steel
- Microprocessor-controlled board-type pH-meter, with range of 2 to 12 pH, 4 to 20 mA output signal
- Microprocessor-controlled board-type rH-meter, with range of -1500 and +1500 mV, 4 to 20 mA output signal
- Microprocessor-controlled board-type dissolved oxygen meter, with range of 0 and 20 ppm, 4 to 20 mA output signal
- Switchboard IP55, complying with EC conformity mark, including plant synoptic and ELCB
- Data acquisition software for Windows

Power supply: 230 Vac 50 Hz single-phase - 1,5 kVA
(Other voltage and frequency on request)
Dimensions: 1600 x 700 x 1900 mm
Weight: 250 kg

ECOLOGY

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36B-E-BT-BIO1C-0

REQUIRED

UTILITIES (PROVIDED BY THE CUSTOMER)

- Tap water (valve with ½" hose connector)
- Water floor drain

ACCESSORIES (NOT INCLUDED)

- Personal Computer running a recent version of MS Windows

SUPPLIED WITH

THEORETICAL – PRACTICAL – EXPERIMENTAL HANDBOOK

VARIATIONS OF THE PLANT UPON REQUEST:

This equipment can be modified upon specific request of the Customer.

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