GRAVITY FILTRATION
PILOT PLANT
Mod. FTR1c/EV

INTRODUCTION

This filtration plant mainly consists of a sand filter; filtered water is collected into a tank from which samples for proper laboratory analyses can be extracted. An in-line turbidimeter enables to measure the turbidity of water.
Data acquisition is carried out by a specific software.

TRAINING PROGRAM:

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

- mechanical filtration
- main parameters affecting filtration
- influence of feed flow rate on filtration

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TECHNICAL CHARACTERISTICS:

- AISI 304 stainless steel framework with castors
- Sand filter of transparent methacrylate, diameter = 100 mm, height = 1000 mm
- Feed tank, 120 l capacity
- Tank for collecting the filtered water, 120 l capacity
- AISI 316 stainless steel magnetic induction flowmeter
- Electronic differential pressure transmitter to measure the pressure drop in the column
- Centrifugal pump with casing and rotor of AISI 304 stainless steel
- Electronic turbidimeter, with programmable range, 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 kVA
(Other voltage and frequency on request)
Dimensions: 2000 x 800 x 2000 mm
Weight: 200 kg

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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