AERATION STUDY APPARATUS

Mod. ASA/EV

36-B

ECOLOGY

INTRODUCTION

This equipment has been designed to study the phenomenon of oxygen transfer in air diffusion systems and the influence of chemical/physical parameters on oxygenation capacity.

TRAINING PROGRAM:

- Measurement of the absorption coefficient Ks and of the oxygenation capacity R
- Effects of:
  - the degree of mixing
  - temperature
  - air flow
  - depth of water
  - diffuser typology
  - water composition

TECHNICAL CHARACTERISTICS:

- Framework of stainless steel AISI 304
- Graduated tank of transparent methacrylate with capacity of 25 litres
- Diaphragm compressor
- Variable area flowmeter (0-12 l/min)
- Portable oxygen probe with display, range of 0-20 mg/l
- Variable speed stirrer
- 3 interchangeable diffusers

Power supply: 230 Vca 50 Hz single-phase - 0,2 KVA (Other voltage and frequency on request)
Dimensions: 600 × 560 × 750 (h) mm
Weight: 60 Kg

REQUIRED UTILITIES (PROVIDED BY THE CUSTOMER)

- Tap water
- Drain

ACCESSORIES (NOT INCLUDED)

- Reactants: sodium sulfite and cobaltous chloride

SUPPLIED WITH

THEORETICAL – PRACTICAL – EXPERIMENTAL HANDBOOK

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