

## PH REGULATION BENCH



*Non contractual photo*

**SERVICE : 220 V, MONO, 50 HZ. 500W**

**DIMENSIONS : 800 X 500 X 900 MM**

### REFERENCE : MP130

This bench allows the study of pH regulation in a container by acting on the injection speed (basic or acidic liquid) of the pump through a regulator. Different algorithms can be studied.

#### Educational Objectives :

- Establishment of a regulation loop Measure / Actuator / Regulator,
- Study in enslavement and regulation,
- Influence of the regulation algorithm by the return to a given instruction following a perturbation.

#### Technical specifications :

- A container of capacity 5 liters,
- A variable speed magnetic stirrer,
- A pH probe
- Digital controller, RS485 communication board, measurement / reference display / PID control parameters,
- Adaptive,
- P, I or PID algorithm
- A variable flow peristaltic pump
- 1 acid storage container,
- Analog control by acting on the motor control of the peristaltic pump
- Basic injection disruption.
- The cabinet can be connected to a recorder for the recovery of regulator power output and measurement
- Stainless steel frame, to ask

#### OPTIONS :

Option 1: Acquisition This module consists of: An RS485 / RS232 converter for PC acquisition. Windows operating software for reading PID parameters, drawing curves, configuring the remote controller and archiving values. Option 2: PC type computer