

pH regulation unit

DESCRIPTION

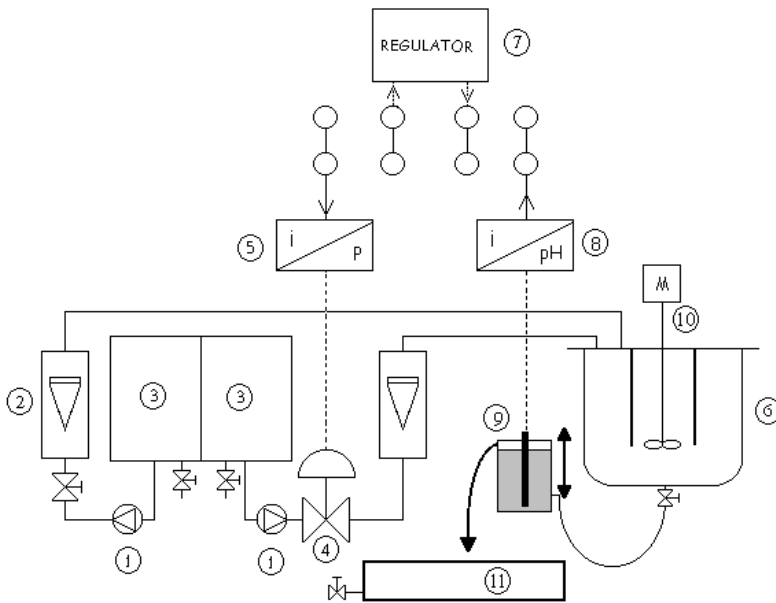
- ✓ The pH regulation unit is delivered complete with instrumentation and includes technical and instruction manuals.
- ✓ Designed and manufactured to industrial standards.
- ✓ This unit is designed for different levels and fields of study.
- ✓ A recorder can be connected to the unit.



SUGGESTED APPLICATIONS

- Characteristics of the components
- Sensor, regulator, activator and perturbing element.
- PID or auto adaptive.
- Regulator configuration.
- Characteristics curves.

RPH 100



UTILITIES

Electricity : 230 VAC single-phase
Compressed air : 6 bars (90 psi) maximum

DIMENSIONS

| | |
|--------|----------|
| Length | : 880 mm |
| Width | : 530 mm |
| Height | : 570 mm |
| Weight | : 47 kg |

Basic solution

- A 10-litre capacity tank (3)
- Supply pump of basic solution (1)
- Flow meter from 20 to 280 mL/min (2)

Acid solution

- A 10-litre capacity tank (3)
- Supply pump of acid solution (1)
- Flow meter from 20 to 280 mL/min (2)

Reactor (6)

- In glass, capacity : 3 litres
- Adjustable velocity agitator (10)
- Drainage valve

Recuperation tank (11)

Control and regulation pH made up of :

- Regulation valve
Stainless steel for elements in contact with solution
Seat and valve interchangeable
Indicator : 0.2 - 1 bar
Range : 40/1
- Type PID regulator with microprocessor
Extending scale configurable
Relay, logical and continuous exit
Proportional band from 0.5 to 1000 %
Global action time from 0.1 to 100 min.
Derived action time from 0.01 to 10 min.
Auto adaptive : PID parameters are calculated by the regulator
- Immersed pH electrodes
Measure range 0 to 14 pH \pm 0.02 pH
Exit from 0 - 1 V / 4 - 20 mA