

ION EXCHANGE DRIVER

REFERENCE : MP11CR



Non contractual photo

**SERVICE : 220 V SINGLE PHASE, 50 HZ -
100 W 5% HCl SOLUTIONS, 5% NaOH (NOT
SUPPLIED)
DIMENSIONS : 1500 X 800 X 1900 MM**

This pilot makes it possible to understand the operations of softening, demineralization and decationisation of water by fixing ions on ion exchange resins.

Depending on the analysis of the water and the flow to be treated, the quality to obtain, we can choose :

- the resin to implement
- the type of regenerant
- the amount of regenerant
- Flow rate and type of operation (co-current / countercurrent)
- The capacity of the resins will be measured according to the regeneration and material balances (Ca²⁺, TH, TA, TAC) will be established.

Technical specifications :

- Two Altuglass columns of 50 mm diameter (for regeneration, for example), 0.76L

OR

- Two 25 mm diameter Altuglass columns (for the process, for example), 0.38L
- The columns are removable to change the resins
- One liter of anionic resin
- One liter of cationic resin
- Centrifugal pump
- 5 tanks
- 1 conductivity sensor with transmitter
- Five measurement probe implantations are planned, the measurement probes will be moved according to the selected processes.
- Two fluid circuits to feed the columns either co-current or countercurrent
- The control cabinet controls and protects the pump and the transmitters of the conductivity sensors.
- All the pipes are in gray PVC, the pilot is mounted on a stainless steel frame with aluminum nuts on wheels.
- Solutions: Strong cationic resin: Purolite C 100
- Strong anionic resin: Purolite A 200

OPTIONS :

Option 1: a set for conductivity measurement additional Option 2: 0.38L additional column set to be connected and cationic and anionic resins Option 3: 0.76L additional column set to be connected and cationic and anionic resins Option 4: A pH sensor and its transmitter