

ION EXCHANGE PILOT

REFERENCE : MP11



Non contractual photo

**SERVICE : 220 V SINGLE PHASE, 50 HZ -
100 W 5% HCl SOLUTIONS, 5% NaOH (NOT
SUPPLIED)
DIMENSIONS : 1500 X 800 X 2000 MM**

WEIGHT : ~ 100 KG

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 / counter current) The capacity of the resins will be measured according to the regeneration

Technical specifications :

- Two Altuglass columns with a diameter of 50 mm
- Two Altuglass columns with a diameter of 25 mm The columns can be dismantled to change the resins
- One liter of anionic resin
- One liter of cationic resin
- Centrifugal pump
- Five bins
- 1 conductivity sensor with transmitter, 4-20 mA output
- 1 PH measurement sensor with transmitter, 4-20 mA output
- Five measurement probe implantations are planned, the measurement probe 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 and pH measurement sensors.
- All the pipes are in gray PVC, the pilot is mounted on a stainless steel frame with aluminum nuts.
- Solutions: Strong cationic resin: Purolite C 100
- Strong anionic resin: Purolite A 200

OPTIONS :

Option 1: A conductivity sensor for supplementary measurement Option 2: A pH sensor with transmitter