

Product Name :
Ion Exchange Unit**Product Code :**
ALABS-A138-002**Description :****Ion Exchange Unit**

- Self-contained apparatus either for single bed water softening or double bed system for demineralisation.
- Two vertical transparent tubes house the resins.
- A manifold at inlet/outlet allows flow configuration changes.
- Equipment includes pump, valves, conductivity meter and sumps for regenerant and test or wash solutions.
- Typical commercial cation and anion resins are supplied.

Description:

Two vertical transparent tubes mounted on a backboard contain the cation and anion resins. A manifold arrangement at the inlet and outlet to the tubes allows the flow configuration to be changed to simulate the cycles involved in the operation of a deioniser. Union couplings permit the tubes to be removed from the manifolds and interchanged for softening/demineralisation experiments. Regenerant and test or wash solutions contained in separate

sumps are selected by a traversing tube and delivered to the apparatus by pump through a control valve and flow meter. Effluent may be fed to a sump tank and treated water collected in bottles for tests on hardness, conductivity or dissolved solids. A conductivity meter connected to the outlet of the second ion exchange bed gives a continuous indication of the progress of demineralisation. The apparatus is supplied with typical commercial cation and anion resins. Other ion exchange materials may be used so that their characteristics, exchange capacity etc, may be measured and compared.

Technical Details:

Pump: Self priming diaphragm type

Flowmeter range: 10-80ml/min

Sump tank capacity: 20 litres

Anion exchange resin: 0.75 litre

Cation exchange resin: 1litre

Chemicals required (not supplied):

Sodium chloride

Hydrochloric acid

Sodium hydroxide



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