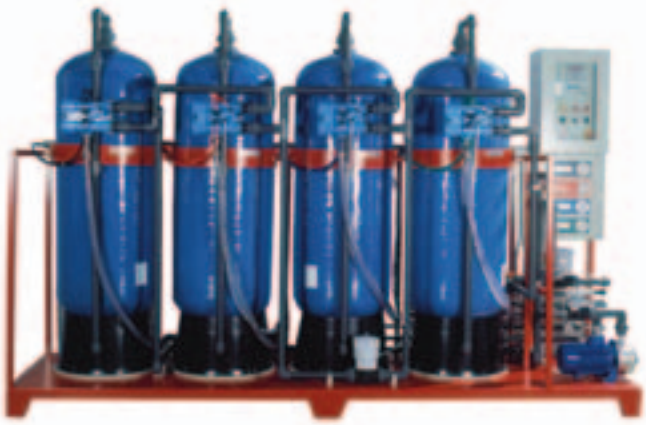
# Deionising water units

## Accessories

In anodizing and pretreatment the use of DI water is highly recommended if quality standards are to be gained. All DI water units are conceived and dimensioned by Aluengineering in relation to the dimensions of the plant and to the production cycle.

A DI unit usually consists of an anionic, a cationic and a filter column. However the anionic and cationic column are doubled so that the regeneration of one set of columns happens while the other two are providing DI water to the plant with no interference with production, when continuous supply of DI water is requested.



Multi valve plant

Single valve plant



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## General features

- **Supporting frame** : Acid resistant painted steel frame with drop recovery tray. The columns, storage tank and electric panel board are fixed to the frame.
- **Water buffer tank** : Cylindrical tank, made in PE and complete of level control and automatic water topping up. The incoming water to be treated is stored in the tank; the same water is used for the regeneration.
- **Feeding pump** : The feeding pump is made in stainless steel AISI 316 and the high head is suitable to move the water from the buffer tank throughout the columns and to ensure the necessary water pressure during the regeneration phase.
- **Mechanic filter** : The 40 micron polypropylene cartridge filter is easily removable and washable.
- **Carbon filter** : When the unit is connected to a recirculation system a carbon filter is necessary to remove organic chemicals. The column containing the active carbon, is made in FRP and it is planned to change the content easily.
- **Flowmeter** : The flowmeter allows the correct setting of the plant during treatment and regeneration.
- **Ion exchange columns** : The anionic and cationic selective resins are contained in the FRP columns. The columns, designed for 6 bar pressure are complete of lower and upper diffusers, bottom drain and air drain valve and air valve.
- **Reagent flowmeter** : Two flowmeters controls the Caustic Soda and Hydrochloric acid flow during the regeneration phase.
- **Conductivity probe** : The conductivity probe inserted on the outlet pipe, controls the water treated.
- **Electric Panel Board** : The electric panel board contains the PLC, the pneumatic multiple ways valve and the electrical circuits.
- **Air pressure regulator** : The air pressure regulator, made in stainless steel ensures the correct air pressure to the pneumatic valve.
- **Reagent storage tanks** : Two PE tanks are provided to contain the reagents necessary to the resins regeneration.