

DEMINERALIZATORS MODEL ECODM



Where it is necessary high quality demineralised water for any use of washing, baths preparation and refilling



APPLICATIONS

Surface Treatment
Coating
Anodic Oxidation
Printed circuit boards

ECOTEAM produces demineralisation plant with closed loop on rinsing systems and/or for the production of de-ionising water from raw water. The demineralisation process

allows to eliminate the pollutants dissolved in the water trough ionic exchange.

The resins exchange cationic elements like Al^{3+} , Ca^{2+} , Mg^{2+} , Ni^{2+} , Na^{+} , K^{+} , with H^{+} and anionic elements like Cr^{6-} , Cl^{-} , NO^{3-} , CN^{-} , F^{-} with OH^{-} . Ionic exchange is a reversible process. The regeneration is done using acid (HCl or H_2SO_4) on cationic resin and base ($NaOH$)

on anionic resin.

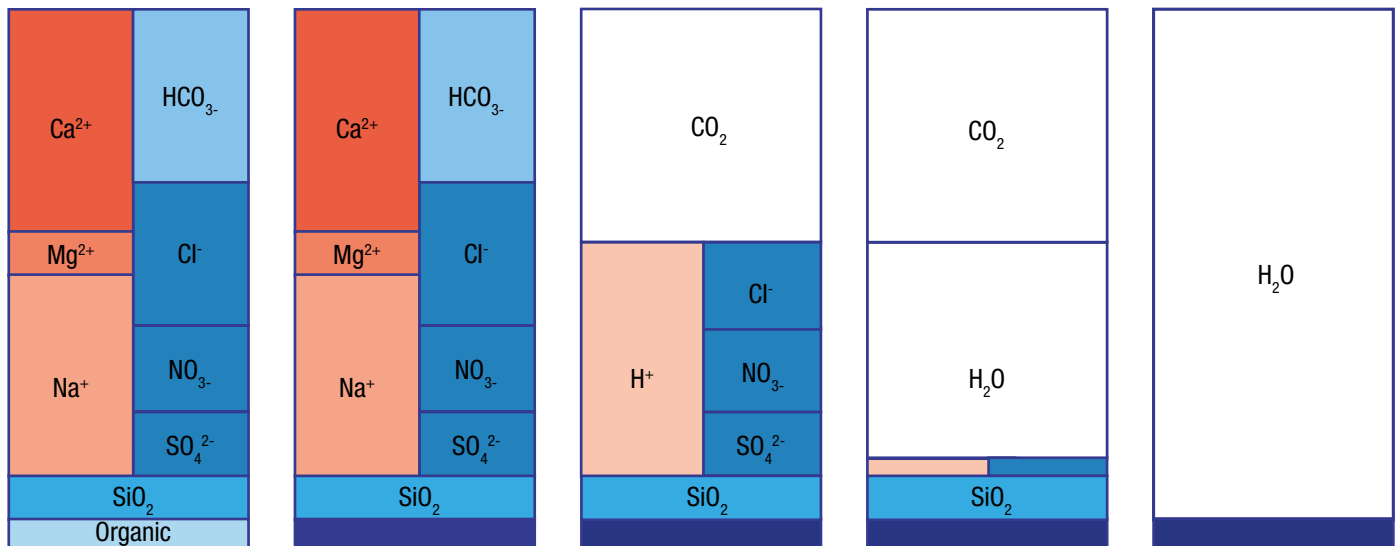
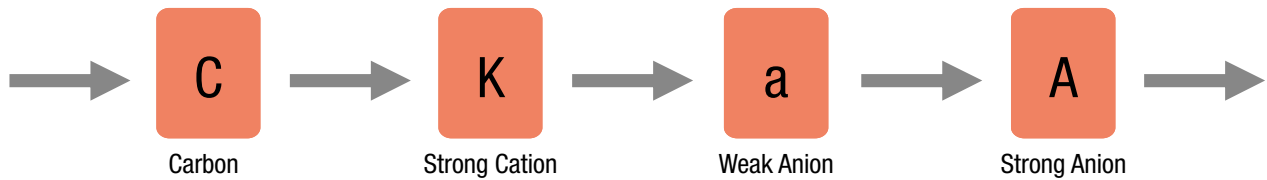
Organic substances, that may pollute the ionic resins, are treated with a granular carbon filter placed before the resin filters. Demineralisation plant can be produced in a single (Simplex) or double (Duplex) line. Simplex plant are designed for a maximum of two shifts otherwise Duplex plants are designed for 24/24 hours production. Demineralization plant are controlled via PLC in every processes phase.

ECOTEAM supplies the following options:

- pH and conductivity control in every phase.
- Regeneration of the single resin filter.
- Counter-current system.

MODEL	HOUR PRODUCTION [l/h]	SIMPLEX N° COLONNE	DUPLEX N° COLONNE
ECODM-50	1.000	2 - 3 - 4	4 - 5 - 7
ECODM-125	3.000	2 - 3 - 4	4 - 5 - 7
ECODM-180	5.000	2 - 3 - 4	4 - 5 - 7
ECODM-250	8.000	2 - 3 - 4	4 - 5 - 7
ECODM-375	12.000	2 - 3 - 4	4 - 5 - 7
ECODM-500	15.000	2 - 3 - 4	4 - 5 - 7
ECODM-750	22.000	2 - 3 - 4	4 - 5 - 7
ECODM-1000	30.000	2 - 3 - 4	4 - 5 - 7

(*) More details on demand



OPTIONS

- Washing panel to clean the regeneration pipes
- Double pump on alimentation
- D.I. storage and pumping system
- Acid and Base storages and control
- Counter-current regeneration system
- Regeneration of single column to reduce eluates
- Mixed bed resins system for Ultra D.I. Water

