

DEMINERALIZATORS MODEL ECODMS



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 through 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

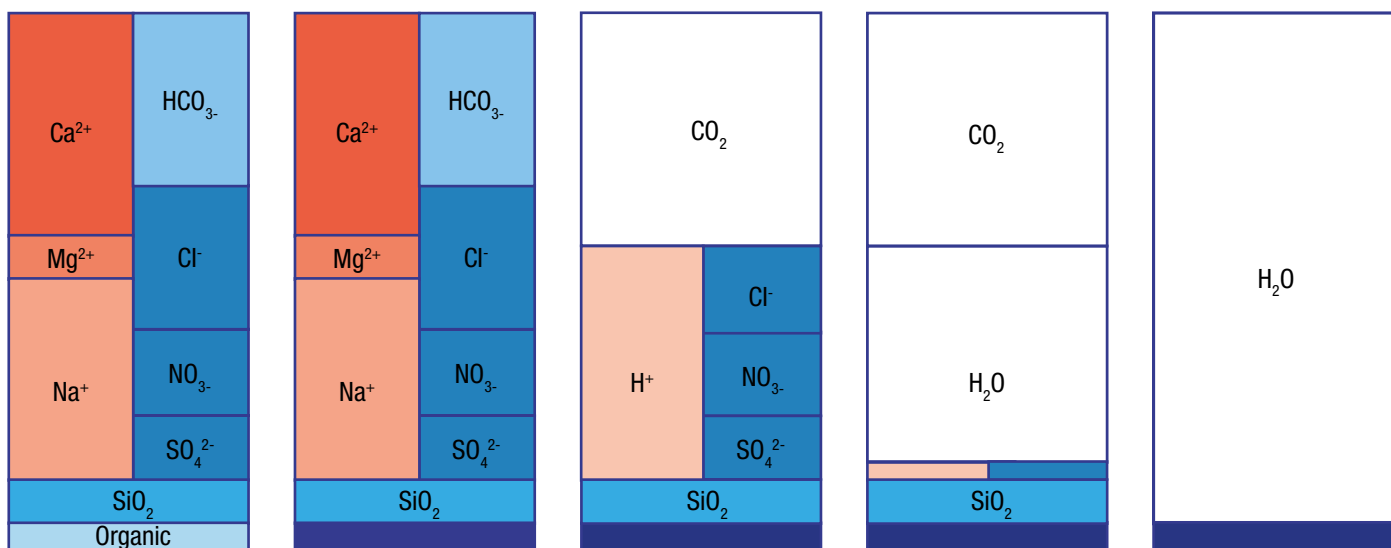
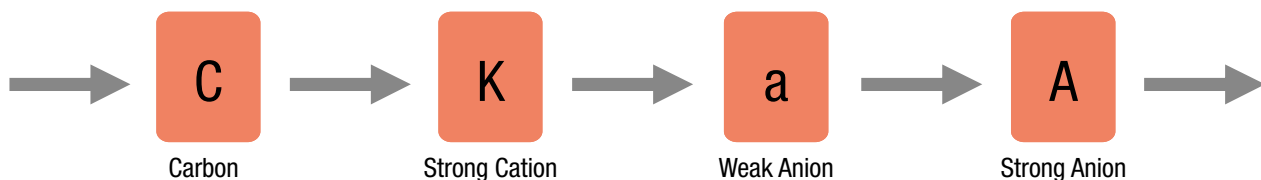
treated with a granular carbon filter placed before the resin filters. Demineralisation plant can be produced in a single (**Simplex**) or double (**Duplex**) line. Simplex plant are designed for a maximum of two shifts otherwise Duplex plants are designed for 24/24 hours production. Demineralization 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.

MODELLO	HOUR PRODUCTION [l/h]	SIMPLEX N° COLUMN	DUPLEX N° COLUMN
ECODMS-125	3.000	2 - 3 - 4	4 - 5 - 7
ECODMS-180	5.000	2 - 3 - 4	4 - 5 - 7
ECODMS-250	8.000	2 - 3 - 4	4 - 5 - 7
ECODMS-375	12.000	2 - 3 - 4	4 - 5 - 7
ECODMS-500	15.000	2 - 3 - 4	4 - 5 - 7
ECODMS-750	22.000	2 - 3 - 4	4 - 5 - 7
ECODMS-1000	30.000	2 - 3 - 4	4 - 5 - 7
ECODMS-2000	60.000	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 eluati
- Mixed bed resins system for Ultra D.I. Water

