

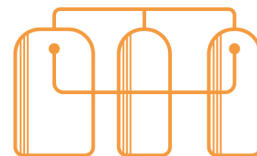
DEMINERALIZATORS

► WITH ION EXCHANGE RESINS



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The Ion exchange resins demineralizers are **water filtering plants used to obtain water with a low content of salts.**

The ion exchange action of the resins allows the ions removal and the production of **deionized water with a conductivity inferior to 30 $\mu\text{S}/\text{cm}$.**

The demineralization plants are used to produce deionized water or for recycling

rinsing water in closed loop.

The recycling plants can drastically **reduce the water consumption and improve the overall quality of the rinsing processes** by eliminating stains, caused by salt deposits, on the cleaned components, after the drying processes. (e.g. electroplating, powder coating or PVD).



- Recycling rinsing water in closed loop, with demineralizer plants, allows to maintain a **high quality of the rinsing water** and consequently improve the quality of the cleaning process.



- SAITA designs and **produces its demineralizers from to the type of industrial application**, the chemical characteristics of the water and the required flow rate for continuous or recycling processes.

ADVANTAGES:

- ▶ Production of low conductivity deionized water
- ▶ Recycling of rinsing water
- ▶ Water saving
- ▶ Constant deionized water quality
- ▶ Resins durability (>5years)
- ▶ Specific ions removal

MAIN FEATURES:

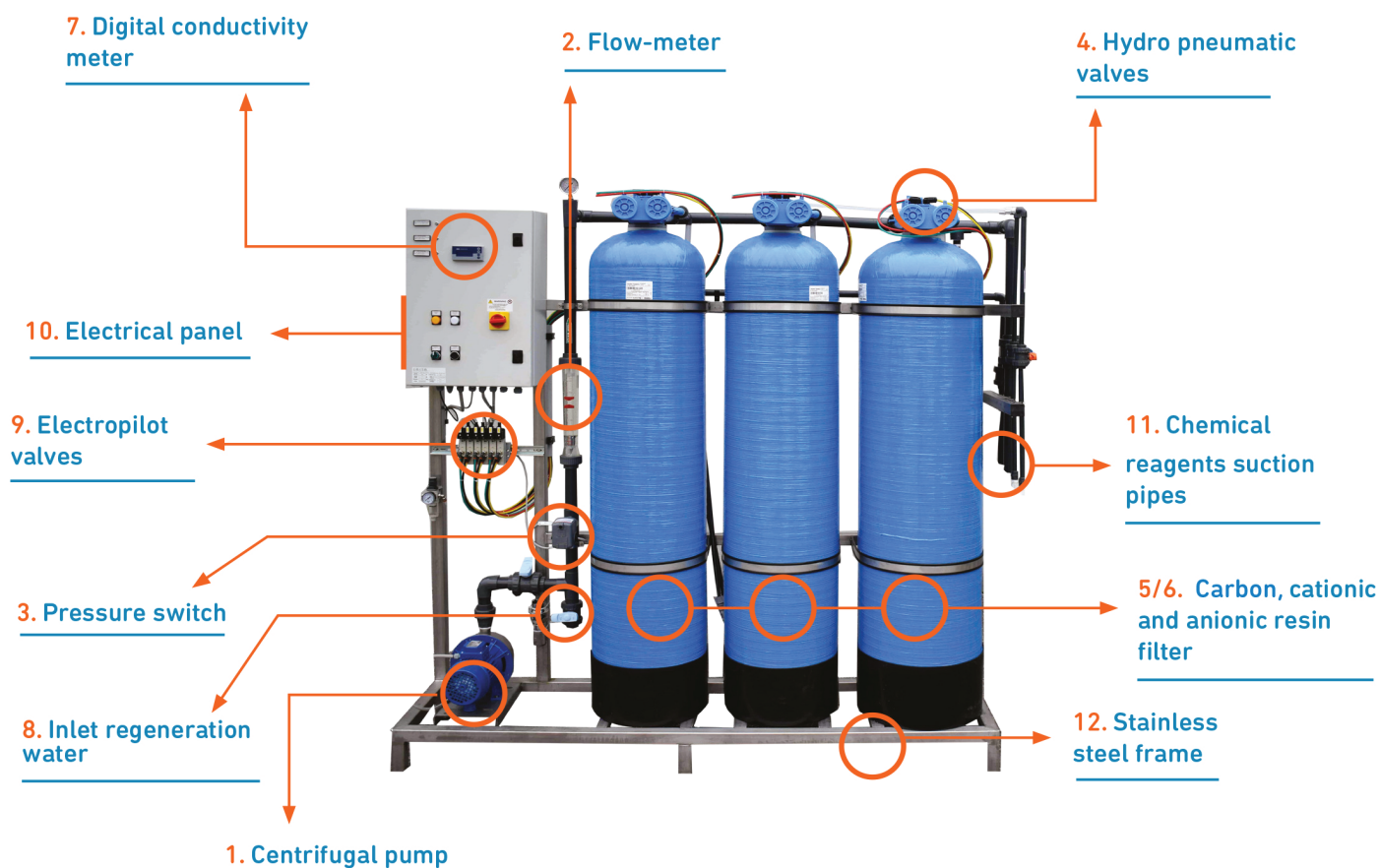
SAITA's modular demineralizers are constructed with a **stainless steel skid frame**.

A standard plant is composed of **a centrifugal pump, a carbon filter, a strong cationic resin filter and a strong anionic resins filter**.

The backwash and the regeneration processes of the filtration media are operated in full or semi-automation. For that purpose, each filter is completed with an hydro pneumatic valve that enables the regeneration and the backwash. The electrical panel is equipped with a **PLC programmer to control** the working/regeneration phases and a digital conductivity meter to control the outlet quality of the deionized water.

APPLICATIONS:

- Electroplating
- PVD
- Powder coating
- Cataphoresis and electrophoresis
- Precision industrial cleaning
- Pharmaceutical industry
- Steam generators
- Optical industry
- Semiconductors and electronics
- Glass production



MODELS:

CD Series

Standard demineralizers with three filtration columns, complete with: centrifugal pump, carbon filter, strong anionic and strong cationic filter.

CDD Series

Specific for the demineralization of slightly acidic water. Four column demineralizers with double columns of weak and strong base anionic resins.

LM Series

Demineralizers for the production of low conductivity (< 0,5 µS/cm) deionized water complete with regenerable or non-regenerable mixed bed resins.

Duplex Series

Double line demineralizers (stand-by and working lines) to allow a continuous production or recycle demineralized water H24.

QK or CK Series

Decationizer plants complete with: sand or carbon filter and a cationic resin filter. Applied to remove cations (for example after alkaline degreasing) and the continuous recycle of rinsing water.

SPECIAL APPLICATIONS:

Ion exchange resins can be applied also in the pharmaceutical and food industry, to bleach the inverted sugar syrup or for the tartaric stabilization of wine and grape must.

MODEL	FLOW-RATE	ELECTRIC POWER (KW)	DIMENSION LXLXH (CM)
CD50/A	1000 lt/h	1	170 x 40 x 170
CD75/A	1500 lt/h	1	195 x 45 x 190
CD100/125/A	2000 lt/h	1	200 x 46 x 200
CD175/200/A	4000 lt/h	1	250 x 60 x 210
CD225/325/A	5000 lt/h	1,2	245 x 90 x 250
CD325/450/A	6000 lt/h	1,5	275 x 90 x 250
CD500/650/A	10000 lt/h	2	320 x 150 x 260
CD650/900/A	12000 lt/h	2,5	350 x 160 x 260
CD900/1200/A	18000 lt/h	3	400 x 210 x 290

OPTIONAL:

- Microfiltration filter
- Pressure switch
- UV Lamps
- Storage tanks
- Mixed bed resin filter
- HMI Touch screen panel