

AQUAREG ICS

RINSE WATER RECOVERY



Ion-exchange Circulation Stations (ICS) for the treatment and recycling of rinse water. In a closed circuit, used rinse water is continuously purified (demineralized) and returned to the production process.

The solution is particularly suitable in case of:

- > high rinse water quality requirements
- > poor water quality
- > water shortage
- > high prices for water withdrawal and/or discharge

Typical areas of application:

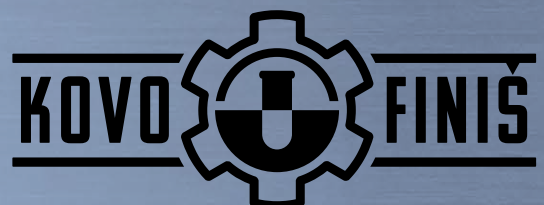
- > electroplating
- > chemical surface treatment
- > anodic oxidation of aluminium
- > pre-treatment before painting
- > printed circuit board manufacturing
- > semiconductor manufacturing

AQUAREG ICS

- > single (simplex) or double (duplex – operation 24/7)
- > according to the nature and composition of the rinse water and the quality requirements of the DI-water:
 - cation-exchange + weak alkaline anion-exchange
 - cation-exchange + weak alkaline anion-exchange + strong alkaline anion-exchange
 - cation-exchange + strong alkaline anion-exchange
- > system for saving water for rinsing after recovery (minimizing the amount of waste water)
- > versions with weak and strong alkaline anion-exchange are equipped with NaOH saving system for recovery
- > uniflow or counterflow recovery
- > automatic control with minimum operator requirements
- > touch panel control

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Product line

Type	Output [l/h]
AQUAREG ICS 1250	1250
AQUAREG ICS 1850	1850
AQUAREG ICS 2500	2500
AQUAREG ICS 3100	3100
AQUAREG ICS 4350	4350
AQUAREG ICS 5000	5000
AQUAREG ICS 7500	7500
AQUAREG ICS 12500	12500
AQUAREG ICS 17500	17500
AQUAREG ICS 23500	23500
AQUAREG ICS 31000	31000

Benefits

- > water saving
- > high quality of rinse water
- > high quality of surface treatment / product
- > saving of recovery chemicals in case of counterflow recovery
- > reduction of waste water amount
- > in combination with other technologies (AQUADEST – vacuum evaporation) the possibility of implementing Zero Liquid Discharge (ZLD)

Accessories – OPTIONS

- > mechanical filtration for filtering off mechanical impurities and sludge – sand or cartridge filter
- > adsorption for organic matter capture – activated carbon filter or scavenger ion exchanger
- > UV-disinfection
- > storage tanks for used and DI-water
- > pumping technology, etc.

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