

Electrodialysis water purification system

By combination of electricity and ion-exchange membranes developed by AGC called "SELEMION", ionic substances dissolved in water are separated for desalination. Water is then ensured safe to drink or suitable for daily life and agriculture. The system is characterized as follows:

Resource-saving: Ion exchange resin used in soft-water equipment loses its performance upon buildup of hard substances during use. The system requires no regeneration process for the removal of hard substances to recover the performance and therefore the dosage of medical agent can be cut significantly.

Energy-saving: Water is utilized more efficiently than the conventional RO (Reverse Osmosis) process and power consumption is less as high-voltage pump is not required.

Countering unstable power environment: Powered by direct current and leveraged on solar panel system, the system can be installed on a site where power source is limited.

Photo: Electrodialysis Purification System



Company Name

AGC Inc.

Cost Range (K USD)

• 10 - 100

Company Web Page

<https://www.agec.co.jp/eng/>

Countries with Track Record

• Israel

Technology Web Page

<https://www.agec.co.jp/eng/product/selemion/electrodialysis.html>

Track Record

• Not introduced in developing countries yet

Sector - Category - Sub-Category

- Water Environment, Water Resources
 - Water supply
 - Water purification