

About Nitron

Nitron, Israel's largest private water treatment company, has developed an efficient technology to remove nitrates and deliver quality drinking water for well owners and water companies.

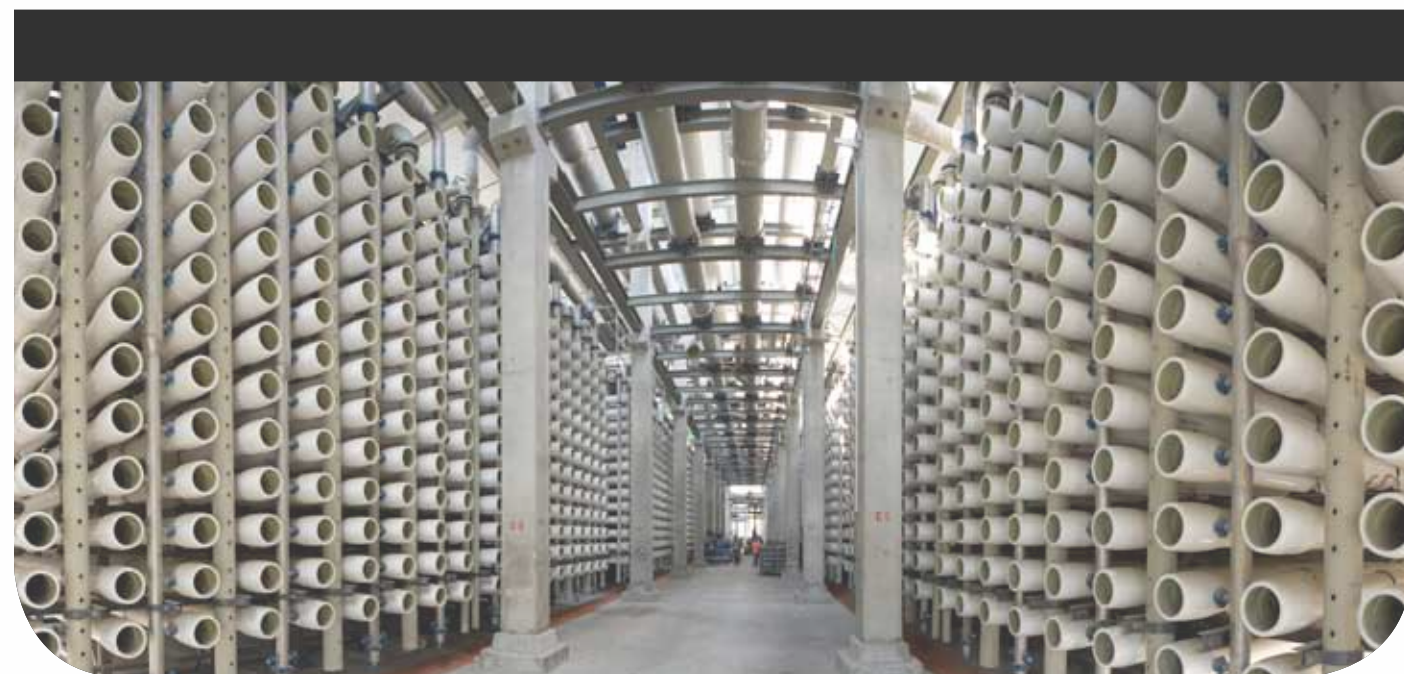
Nitron has been treating water and waste water for 15 years in Israel - the home of smart water solutions. Nitron has implemented a variety of water projects for over 50 clients, including Israeli municipalities, Mekorot - Israel's national water company, Danone Israel, Nestle Israel, The Weizmann Institute, and more.

Nitron is owned by "Housing & Construction" (TASE: SKBN) Israel's largest construction company, controlled by the multi-billion dollar Arison Group. Nitron is the group's water specialist, building complex projects such as waste water treatment, desalination, drinking water purification and more. Thanks to its corporate affiliation, Nitron is able to provide flexible financing solutions to meet its customers' needs.



SEED

SELECTIVE ELECTRO-DIALYSIS



40 Haatzmout Rd. POB: 1928 Yehud-Monosson 56304 Israel

Tel: +972-3-539-0000 FAX: +972-3-539-0022

WWW.NITRON.CO.IL

WWW.HCH.CO.IL

SED Nitrate Removal from Drinking Water

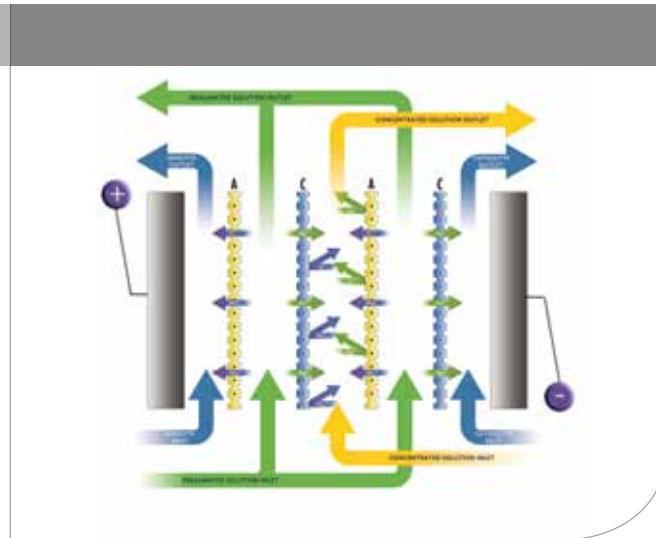
Good for the Environment, Excellent for Your Budget

SED has been working successfully in Israel in 15 plants that save more than 55% on water costs for our customers. All Nitron plants produce water according to rigorous quality standards under strict government supervision.

What is SED?

SED is an EPA approved solution to remove nitrates from large-capacity ground and surface water sources of 100,000,000 gallons per year and up.

SED uses an electrical process to separate nitrates from the water and concentrate it in separate cells. It replaces traditional technologies such as Reverse Osmosis or Ion exchange with a simple process that typically includes only pre-treatment and a membrane stack to produce drinking water of the highest quality.



Less Energy

SED relies on natural electrical processes and works at a low pressure of 2-3 bars. By specializing in nitrate removal from brackish water, Nitron was able to develop a highly energy-efficient solution that achieves impressive results at minimal energy costs.

SED uses 60% less energy than RO

Less Chemicals

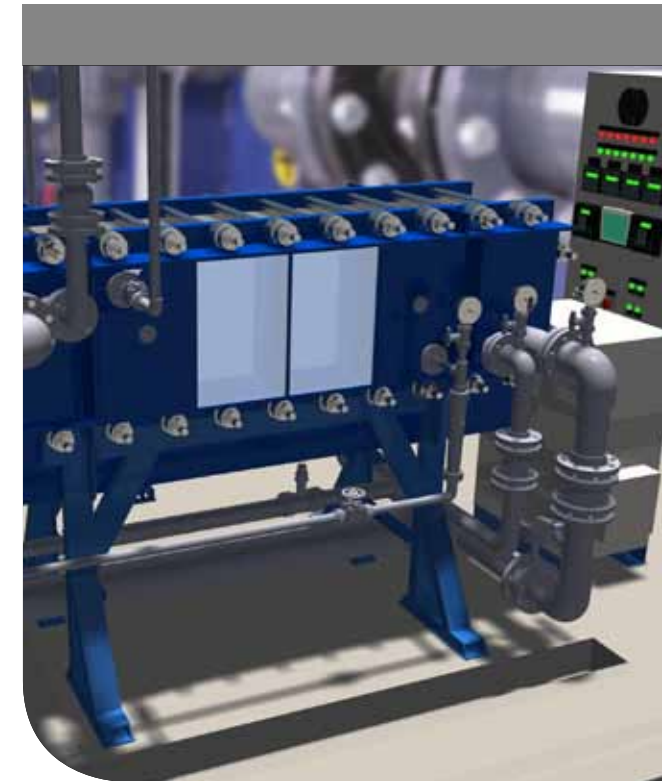
The simple SED electrical process uses no chemicals for treating the feed stream or restoring minerals to the product stream. Chemicals are only used to prevent precipitation in the concentrate stream which amounts to just 3-6 % of the feed water.

Chemicals are only used in the concentrate stream



High Recovery Rate

SED outputs approximately 95% of the water, making the most out of available resources. By comparison, in reverse osmosis for removing nitrates about 20% of the water is turned into brine



Less Maintenance

SED uses special selective membranes which are insensitive to silica, sulphate and other materials thereby simplifying pretreatment. In SED water flows in parallel to the membranes, a method that further reduces the risks of clogging and other mechanical problems. Thanks to these and other features SED plants have 93%-99% availability, with no gradual performance deterioration.

To ensure simple maintenance Nitron has developed a smart Command & Control System that allows customers to access all sensor readings remotely through the web. If a reading is out of accepted range, the system sends alerts through email or SMS.

SED membranes are replaced every 7-10 years.

