



Category: Sea and Brackish water Desalination, Water treatment, Drinking water, Industrial water treatment.

www.desalitech.com

Company profile

Date of establishment: 2007

No. of employees: 10

Examples of past projects

Desalitech is leading the next generation of Reverse Osmosis desalination and water purification.

By replacing the existing RO scheme with the patented hydrostatic Closed Circuit Desalination (CCD) technology, **Desalitech dramatically reduces RO water treatment costs for desalination and industrial water upgrade by more than 25%, and greatly increase operational flexibility.**

The outstanding advantages of Desalitech systems over the most advanced existing RO solutions:

- **Dramatic reduction in energy consumption** of 30% - 40% compared to most advanced RO plants. Reducing SWRO energy consumption down to 1.5 kWh/m³.
- **Reduction of Operation and Maintenance expenses** - Eliminating the major membranes' fouling and scaling factors, thereby decreasing maintenance procedures and membranes replacements and **enhancing systems' reliability.**
- **Reduction in equipment costs** - fewer standard membrane elements for the same production capacity, smaller pumps, no energy recovery devices.
- **Unmatched operational flexibility** - Each unit can desalinate a wide variety of sources, and for each source ultimate recovery and peak performance are attained. This is achieved thanks to the decoupling of the recovery, cross flow and driving pressure (and thus, the flux and the energy consumptions).
- **Modular and scalable design** - facilitates highly cost-effective solution for any production capacity. The very same simple and uniform system design applies to any salinity level / recovery / application.

Desalitech has commissioned several containerized Sea Water, Brackish Water and water upgrade systems of 250 - 1500 cubic meter per day, and it is currently promoting and finalizing projects of up to 15,000 m³/day.

Desalitech has a joint R&D project with GE, sponsored by the BIRD Foundation, and it is affiliated to one of the largest holding companies in the Israeli water sector which have long years of experience in desalination and in the manufacturing of water related equipment.

Technology & product(s)

Desalitech systems and solutions cover any RO application at any scale, ranging from the upgrade of wells and municipal water to ultrapure water, through the upgrade of treated effluents and brackish water, and up to seawater desalination.

Desalitech is proposing a line of fully automated containerized desalination systems of up to 3000 m³/day (500 gallons/min) intended for 24/7/365 operation in various operation conditions, as well as larger plants.

Objectives / Target companies

RO projects (municipal and industrial water treatment, treated effluents upgrade, brackish and sea water desalination).

Collaborations with RO integration, operation and engineering companies.

Distribution partners that are water related equipment and service providers.