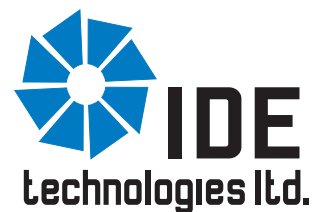




IDE Reverse Osmosis (RO) Solutions
Technology • Experience • Leadership

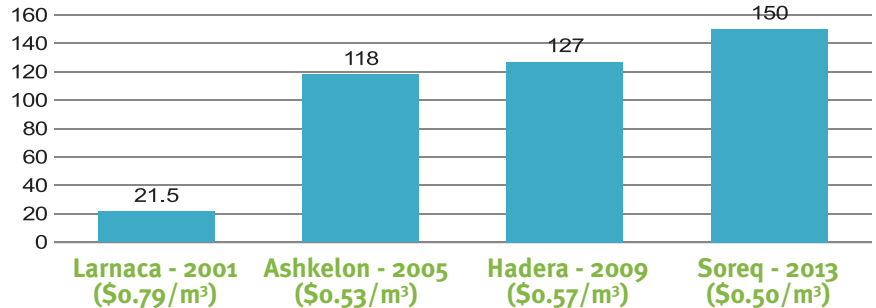


IDE: The Reverse Osmosis (RO) Leader

IDE's Membrane Desalination plants lead the seawater desalination market. These plants leverage the accumulated know-how and experience that have kept IDE a market leader for the past 45 years.

Through ongoing development of best-in-class technologies, IDE has achieved a continuous increase in the desalination capacities of large-scale plants while dramatically reducing desalinated water costs on long-term BOT contracts.

Steady Increase of Desalination Capacity (million m³/year)



IDE: A Comprehensive Approach to RO Plant Design

IDE takes a customized, multi-discipline approach to RO plant design, resulting in an unmatched level of efficiency and performance.

- **Pre-treatment:** IDE's customized pre-treatment systems assure maximum RO system efficiency and lifespan.
- **High Pressure pump:** IDE optimizes the selection of pumps and process design to maximize membrane throughput and salt rejection.
- **Energy recovery system:** IDE's unique incorporation of energy recovery devices enables its plants to offer the industry's lowest desalination energy consumption.
- **Membrane assembly:** IDE's compact, customized membrane array increases efficiency while minimizing investment.

In addition, IDE offers tailored **financing** packages that help customers transform ambitious dreams into reality – all within accelerated deadlines and strict budgetary frameworks.

IDE's Competitive Edge

- **Flexibility:** IDE's plants produce high quality drinking and industrial water from all types or sources - seawater, brackish water or tap water.
- **Cost leadership:** IDE's plants deliver the industry's lowest water costs and energy consumption.
- **Capacity leadership:** Having built most of the world's SWRO mega-plants, IDE leads the industry in maximizing throughput.
- **Proven project management track record:** Over 45 years of desalination success have proven IDE's ability to deliver complex projects on time, within budget.

*Ashkelon SWRO 118 million m³/year
BOT project operating since 2005 in
Ashkelon, Israel*



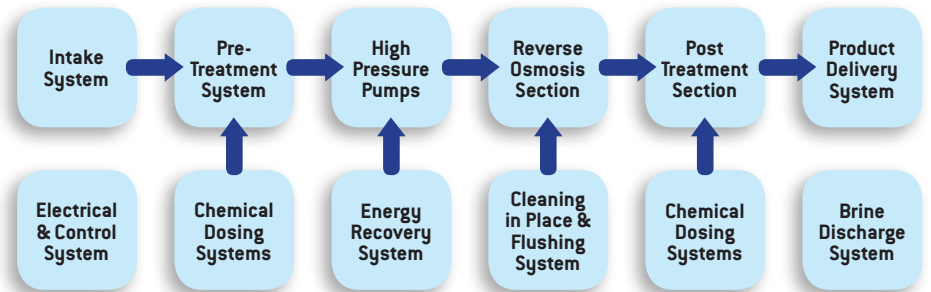
Why IDE

IDE's Reverse Osmosis (RO) plants leverage the accumulated experience, technological excellence and know-how built over a 45 year history with 400 installations. This record has proven IDE's project management skills, its ability to secure financing for major projects, and its reliability as a joint venture partner.

IDE's industry leadership is visible in the technology, engineering and management of every plant it builds. When you choose IDE, you put the leader in your corner.

The Process

The following diagram illustrates the principal components of a typical IDE RO plant:



Reverse Osmosis

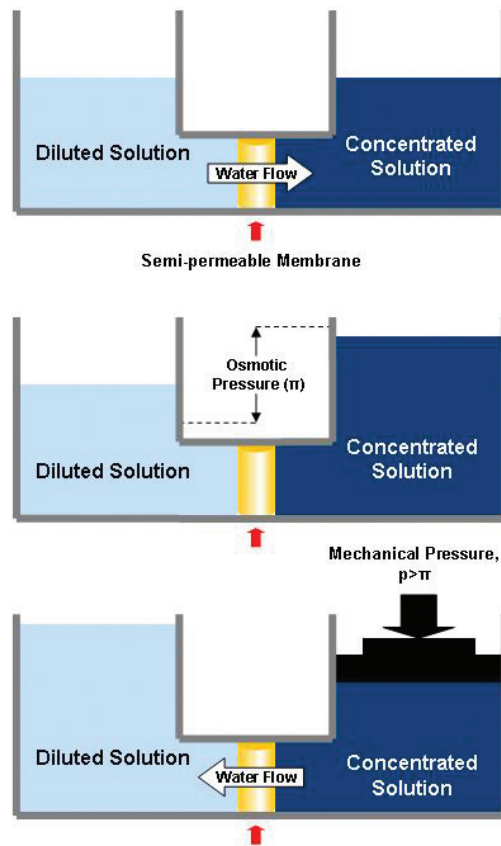
When two solutions of different concentrations are separated by a semi-permeable membrane, the less concentrated water will diffuse through the membrane into the concentrated solution. However, when the right pressure is mechanically applied to the concentrated solution, pure water will flow through the membrane to the diluted solution, leaving behind dissolved salts and impurities. This phenomenon is called "Reverse Osmosis".

Features of IDE's Reverse Osmosis Process

- Suitable for use with tap water, brackish water and seawater.
- Superior reliability and availability.
- Produces high quality processed water.
- Optimal selection of RO membranes.
- Optimal energy recovery design.
- Compact plant design for a reduced initial investment.
- Low cost desalination with reduced energy consumption.
- Rapid delivery and installation.
- Modular, easily expandable design.
- Simple operation and easy maintenance.
- Environmentally responsible operations.

Modular Solutions

In addition to mega-sized RO solutions, IDE offers compact, modular RO desalination systems that can be expanded in stages, beginning with capacities as low as 1,000 m³/day. The use of containerized modular SWRO skids makes it easier to transport equipment to the project site, thereby reducing required infrastructure and overall project costs.



About IDE

IDE Technologies is a world leading desalination company. Since 1965, we have built 400 desalination plants throughout the world, with a cumulative installed capacity of over 2,000,000 m³/day - projects that have honed our technologies, our engineering know-how, our project management/operation skills and our financial expertise.

Our technologies for optimized, high-end thermal and membrane (Reverse Osmosis) desalination are recognized as the most advanced in the world, and we have designed, built and currently operate most of the world's mega-sized SWRO desalination plants. In addition, we are leading providers of advanced thermal distillation solutions used for industrial applications.

Our customized desalination plants and self-contained desalination units provide high-quality water for use in industries, mines, refineries, and power stations, as well as for potable water applications and agriculture. IDE is jointly owned by two of Israel's largest industrial enterprises: ICL Group (50%), one of the world's leading fertilizer and specialty chemicals companies, and Delek Group (50%), the leading energy & infrastructure group based out of Israel.

***Hadera SWRO 127 million m³/year
BOT project operating since 2009 in
Hadera, Israel***



***Larnaca SWRO 21.5 million m³/year
BOT project, operating since 2001 in
Larnaca, Cyprus***



IDE
technologies ltd.

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OUR MARK
IN WATER**

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