

GOING
GREEN
KEEPING
CLEAN

 **PROGREEN**TM
Sustainable Water Production

 **IDE** | WE MADE
technologies ltd. | OUR MARK
IN WATER

ECO FRIENDLY. INNOVATIVE.



IDE PROGREEN™ - Product Overview

The pursuit of a sustainable, long term solution to reduce the increasing stress on our limited natural water supply, while minimizing the impact of desalination on the environment, has been a key inspiration behind IDE's latest product; IDE PROGREEN™.

A uniquely environmentally friendly, easy to implement water production system, IDE PROGREEN™ eliminates the use of chemicals in the pre-treatment and desalination process.

Bringing affordable, sustainable, clean water to a wide variety of businesses and industries, IDE PROGREEN™ provides all the benefits of a comprehensive desalination system in one neat, compact package.

Easily transported, keeping O&M costs to a minimum and eliminating the need to invest in expensive infrastructure, the system is designed to increase ROI.

Delivering high quality clean water without the use of chemicals and utilizing only minimal energy consumption, IDE PROGREEN™ keeps both the environment and your footprint clean and green.



COST-EFFECTIVE.

Increased ROI via Environmentally Friendly, Cost-Effective Water Desalination

SAVE MONEY

- Reduced maintenance and personnel costs
- No handling of chemicals
- Reduced energy consumption
- No infrastructure investment
- Reduced transportation costs
- Membrane Direct Osmosis Cleaning (DOC) system - No chemicals or maintenance required
- High availability
- Fully customizable to a variety of water sources and customer requirements

SAVE TIME

- Fast & easy installation
- Shorter delivery time: No need for chemical handling and disposal permits
- RO membranes: Uninterrupted operation for stable performance

HELP SAVE THE ENVIRONMENT

- No chemicals required: Uniquely ecological green pre-treatment & RO processes
- Patented RO membrane DOC (Direct Osmosis Cleaning) system:
 - Long-term energy consumption reduction
 - Chemical-free membrane cleaning

INNOVATIVE TECHNOLOGY: INDUSTRY FIRSTS

Recognized as an industry leader, IDE is renowned for its innovative 'industry first' solutions. With the introduction of IDE PROGREEN™, IDE brings yet another 'industry first' to the water desalination market, creating new benchmarks for success and once again leading industry trends.

With IDE PROGREEN™, IDE sets a precedent for the future of compact, cost-efficient and environmentally friendly water desalination systems, suitable for a variety of businesses and industries.

APPLICATIONS

Specifically designed to be flexible, IDE PROGREEN™ is suitable for a diverse range of applications, including:

- Industrial
- Drinking Water
- BFW (Boiler Feed Water)
- Agriculture

CAPACITY RANGES

- SWRO: 500-5,000 m³/day
- BWRO: 500-10,000 m³/day
- Containerized or skid mounted design - according to capacity

OPERATING PARAMETERS

- TDS 35,000-41,000 mg/l (as NaCl)*
- Temperature 15 to 32°C (77 to 95°F)*
- Recovery 45%
- Brackish water operating parameters under specific conditions

* Systems can be provided, upon request, for different feed water parameters

FEATURES

- Energy-efficient High Pressure Pumps
- Frequency converter (VFD) for efficient operation in fluctuating feed water conditions
- State-of-the-art, highly efficient energy recovery systems
- Top quality MoC (Materials of Construction)
- Modular, expandable renowned Programmable Logic Controller (PLC)
- Cellular & web-based SCADA interfaces
- Post shutdown product water flush
- Remote performance monitoring

ADDITIONAL OPTIONAL FEATURES

- Installation & commissioning supervision
- Turnkey services
- Maintenance program
- O&M contract supervision
- Boron removal
- Post treatment and high quality water polishing
- Water Sale Services
- Emergency / Long term leasing
- Optimized pre-treatment with low velocity multimedia filters / membrane filtration
- Conventional pre-treatment & RO process available upon request





ABOUT IDE

A world leader in water technologies, IDE specializes in the development, engineering, construction and operation of enhanced desalination facilities and industrial water treatment solutions, as well as industrial evaporation, snowmaking & refrigeration applications. With its thermal and membrane technologies recognized as the most advanced in the world, IDE has designed, built and currently operates many of the world's mega-sized SWRO plants, in addition to some of the largest MED and MVC desalination plants. IDE provides high-quality water for a wide range of industries, mines, refineries and power stations and holds a proven track record that spans 400 plants, 40 countries and 4 decades.



www.ide-tech.com