

nirosoft

TREATING WATER WORLDWIDE

DRINKING WATER

Desalination Solutions



RWL
Water
GROUP

Turnkey solutions in all types of environments

Tailormade systems reliably deliver high quality drinking water to densely populated areas and remote communities

Using desalination to deliver drinking water

Nirosoft's desalination systems produce drinking water from almost any source, including sea, surface and brackish water.

To ensure consistent and reliable supply, many communities, water authorities and private companies are turning to desalination to provide their water needs. Nirosoft custom designs, manufactures, and supplies state-of-the-art desalination systems. The systems are based on site-specific feed water characteristics and specific water quality requirements. The company specializes in reverse osmosis systems — membrane separation processes that efficiently remove a wide variety of dissolved materials from water.

Nirosoft's experience has shown that implementing an efficient system, under a cost-effective business model, greatly reduces the cost of clean water. Systems can be supplied on a contractual supply, turnkey, BOT, or DBO basis, in accordance with each client's specific needs.

Taking water from the sea to the city

The Moni seawater desalination plant in Limassol, Cyprus, which produces 22,000 m³ of potable water per day, was delivered in a record time of eight months. Operated under a BOT contract, the fully modular plant will be removed and relocated after the permanent Episkopi desalination plant, with a capacity of 50,000 m³ per day, goes online in 2012.

From residential areas to remote locations

Nirosoft develops tailormade systems for remote communities and urban populations. The systems cater for the needs of rural and city dwellers, as well as transient and permanent populations. The systems range from containerized modular systems to fullscale plants.



The Moni SWRO plant in Cyprus



Delivering drinking water in the Antarctic

Nirosoft's self-contained desalination unit provides up to 100 m³ of purified water per day for the Australian research team at Davis Station.

Achieve 40% energy savings Sea water desalination systems incorporate energy recovery systems which reduce energy requirements by up to 40%, resulting in more economical production of drinking water.



Ready-to-use systems

Nirosoft's pre-assembled, pre-wired, and pre-piped containerized modules are specially designed for fast and easy installation and commissioning. The skid-mounted pre-filtration systems and RO units are shipped to site after complete validation testing at Nirosoft's production facility. The systems are supplied with central control systems for easy operation and remote monitoring.

Nirosoft's multidisciplinary team works closely with clients, providing consultation during the project and support services after commissioning.



Supplying water without disturbing the local population

The Garillis desalination plant in Limassol, Cyprus is designed to treat brackish water with high nitrate levels. The plant, located in the heart of a residential area in Limassol, supplies 10,000 m³ of drinking water per day and operates without causing any disturbances to the neighboring population.

Water undergoes pre-treatment filtration, desalination, and remineralization to improve taste, and post-treatment disinfection to ensure purity.

Making brackish water safe for use

Nirosoft leveraged its expertise in the desalination of brackish bore water to provide a reverse osmosis desalination system with a capacity of 2,500 m³ per day for the town of Oakey in Queensland Australia.

To minimize waste disposal, backwash water is recovered. Brine produced by the RO process is pumped to a nearby coal mine for use in dust suppression.





Founded in 1990, Nirosoft is a member of the RWL Water Group. RWL Water, controlled by Ronald S. Lauder, is focused on creating a global water treatment business that will meet the growing need for clean water through the utilization of advanced water purification and recycling technologies.

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