

ROCHEM[®]



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MEMBRANES



ROCHEM - NOT JUST MEMBRANES

The Rochem Group is made up of several sister companies based in Switzerland.

Rochem Group AG connects our membrane systems companies around the world, which represent and sell systems and chemicals made by the Group's companies.

Romaco BV is our chemical production company where our Rochem membrane cleaners, Roprep antiscalants and Fyrewash chemicals are developed and produced.

Rochem Fyrewash AG allows jet turbine operators to clean their turbine compressors and airflow surfaces while the turbine is operating. The result: large savings through minimal downtime and greatly reduced fuel consumption.

Active throughout South America is Rochem Biocare Holding AG, a medical distribution and service company with strong networks throughout the region. Our service-first mentality allows us to quickly supply medical laboratories with reagents and equipment in order to respond quickly to public health emergencies as well as for routine testing.

We are near you with efficient solutions to your problems.



ROCHEM MEMBRANE SYSTEMS

Our group was founded in 1973 to manufacture and distribute Rochem chemicals. One of our key managers worked in parallel on the development and patenting of a new Reverse Osmosis design. Although today this concept is colloquially known the world over as DTRO, **DTRO**[®] was in fact our original brand for Disk Tube Reverse Osmosis.

The design of our modules creates a wide open-channel flow for the water to be treated, strongly minimizing fouling. This has allowed us to propose the most efficient treatment of heavily silt-laden water and of landfill leachate. In 1989, the success of this concept led our group to expand its business from marine chemicals to high-efficiency cleaning of water through advanced reverse-osmosis.

Today, our membrane division's production facility occupies a 7'000 SqM state-of-the-art, green-energy building, and employs over 60 people in R&D, systems engineering, module production, and systems assembly for our sales subsidiaries worldwide.



ROCHEM ENGINEERING

We pride ourselves on being able to analyse your water problems and apply a wide array of proprietary solutions. This includes custom-designed prefiltration, specialty membrane in our proprietary modules, through to completely automated multi-stage systems designed specifically for you.

Our in-house engineering team, with decades of combined experience and thousands of installed systems under our belt, is continually working on furthering our expertise in difficult waters and we are pushing the limits of reverse-osmosis, as the most efficient and economical method of maximizing recovery of pure water. It is also the most efficient way of reducing the quantity of concentrate for disposal. Whichever your aim, Rochem reverse osmosis systems can get you farthest with the lowest lifetime cost per m³ of water treated.

Rochem reverse osmosis is THE most efficient way to treat difficult water. Our technical team has a clear vision of how to handle yours most effectively.



ROCHEM MODULES

We created disk tube module technology in order to treat such difficult problems as landfill leachate, heavily silt-laden water and various types of industrial water. Through decades of applications, experimentation and refinement, we have continued to evolve the technology within our modules to make them more efficient, more reliable, and most importantly for our clients, even more fouling-resistant over a long lifetime.

Next to our disk tube technology, we have engineered a companion line of Spacer Tube modules which provide a similar level of anti-fouling properties along with a higher membrane capacity in a smaller footprint for many types of waters.

Rochem actively engages in the testing of new membrane types in order to be able to propose targeted solutions to your specific water problems.

Since 1984, we have continuously striven to engineer more efficient and effective ways to minimize fouling and to reach higher levels of concentration.



ROCHEM LANDFILL TREATMENT

In 1984, we began testing our disk tube reverse osmosis systems at the largest landfill in Germany. This marked the first time that reverse osmosis had been used to control leachate released to the environment. Our operations there have not only continued uninterrupted, they also served as a test-bed for our continual improvement.

We have learned how to optimize cleaning schedules, how to adjust our programming, how to work with the huge variety of parameters which can change almost daily on a large landfill site. Consequently, we have successfully treated many, many landfills the world over as the reverse-osmosis partner to the largest landfill operators and waste management companies in the world. Typical recovery dependent on customer requirements is between 70% and 95%.

Today, thanks to our extremely efficient recovery of PFAS molecules, Rochem is well placed to discuss your needs in meeting future norms, as well as the most stringent standards currently in force.

Where landfill leachate is a problem, **ROCHEM® is the solution.**



ROCHEM FOR FOOD PROCESSING

Our legendary build quality and performance in drinking water applications make our systems a natural fit where reliable and high-quality treatment of food production waste water is required.

Whether in fish farming or vegetable processing where heavy silica or organics are a problem for many systems, Rochem Reverse Osmosis technology allows you to concentrate on your main job.

Rochem anti-fouling module technology and drinking water experience brings clean water to food processing.



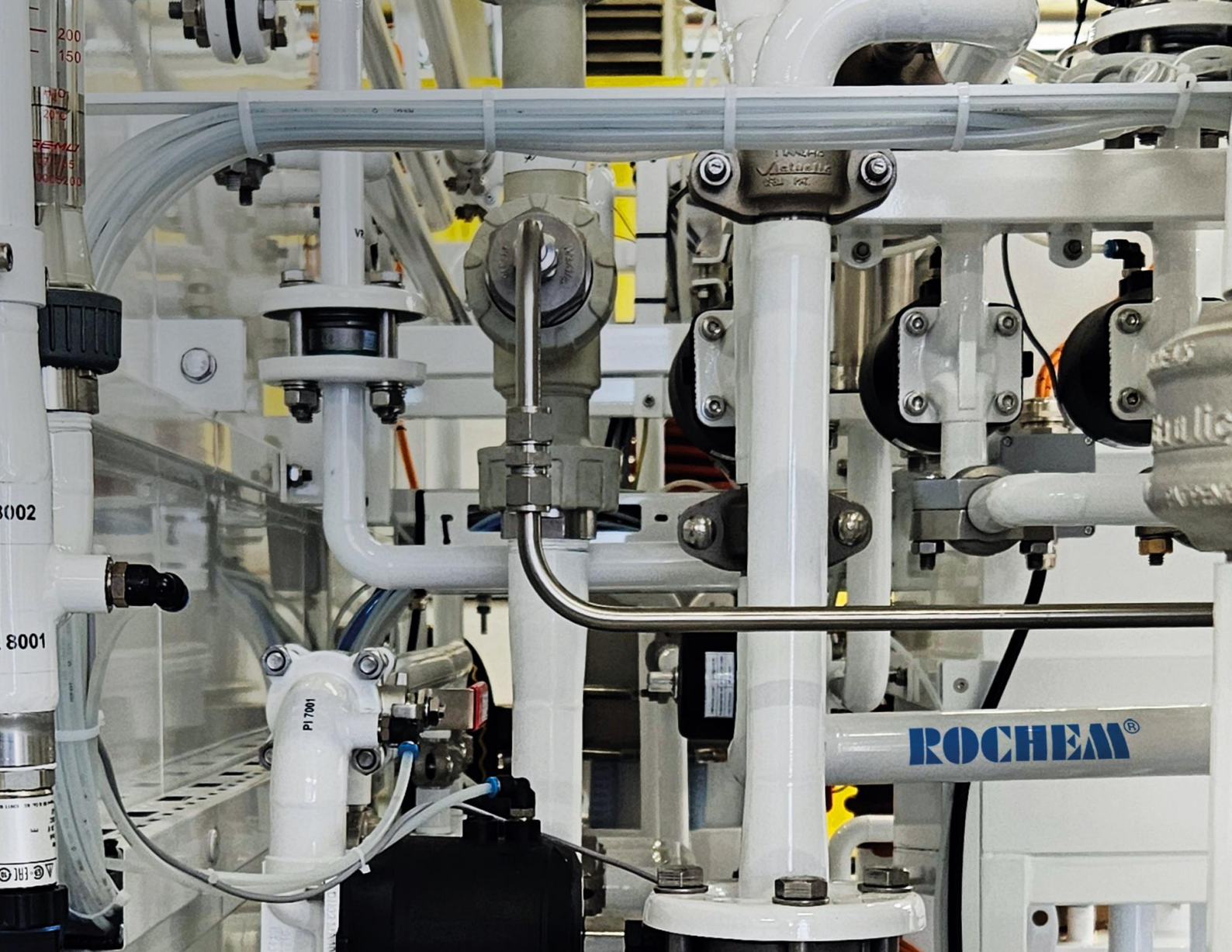
Alfred-Wegener Institut/Jan Rohde

ROCHEM SEAWATER DESALINATION

With submarines not surfacing for weeks, service ships and research vessels not returning to port for several months at a time, it makes good sense to have Rochem freshwater generators on board: having installed and serviced thousands of them worldwide over the decades, we know how to build ultra-reliable, easy-to-service and friendly-to-operate units.

We can easily design tailor-made solutions for special needs such as dredgers, river cruise ships and vessels which operate in difficult water with high fouling potential.

We offer tried and tested reliability combined with in-house modules that we can fine-tune for your specific needs.



ROCHEM BIOFILT

Our BioFilt black water treatment system may well be the most expensive solution you could put in your ship. But, as one of the world's best known yacht builders has confirmed to us, "if you are serious about keeping your guests' swimsuits white, it may be the only one that is fit for purpose".

Amongst our system's advantages:

- ✓ Cleaning is straightforward and involves no smells or mess.
- ✓ You can leave your BioFilt unit running at all times, including when your guests are swimming around your boat.
- ✓ You can sail anywhere and even enter marine sanctuaries restricted by the marine protection code MEPC227(64) for protected areas.
- ✓ We can combine the BioFilt unit with a freshwater generator reaching German drinking water standards identical to those on German Navy ships.
- ✓ Capacities from small yachts up to 1000 passengers or more.



ROCHEM SERVICE

Before we entered the field of reverse osmosis, we were highly active worldwide in the field of marine chemicals, where quick adaptation to changing schedules is everything: we had service teams and partners available worldwide at a moment's notice to clean a tank between two shipments or disinfect bilgewater while port-side.

Today, nothing has changed in our passion for service: we have a worldwide network for service as well as extremely experienced service personnel who are on call to keep your systems running in the shortest delays.

As we construct all of our products in our workshop in Germany, we have close contacts with our long-time suppliers of hard to obtain parts, which further guarantees the shortest lead times in the market for any repairs.

We believe that service begins even before your systems leave our factory. We are courteous, reliable, professional.



ROCHEM MEMBRANES - MADE IN GERMANY

We committed decades ago to engineering and building our systems in Hamburg, Germany, a reliable shipping port which is centrally located between our worldwide customers. We have just completed our new factory which quadruples our production space there.

More important than location, our team in Hamburg is made up of many employees who have engineered or built thousands of systems over the past five decades and can refer to all the knowledge dating back to our first prototypes. Keeping our chain of knowledge intact and being able to follow our quality and teams daily on our own factory floor is more important to us than a price-oriented vision of offshoring or outsourcing our production.

We also have long-standing agreements and collaboration with local high-precision teams such as specialty metal fabricators, whose quality is still obvious when we service systems using their parts which are still working reliably after 20 and 30 years. Our processes and build quality are continually monitored via our strict compliance with ISO 9001 and TÜV standards.

In constantly changing scenarios, Rochem is committed to “Made in Germany”.



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