


WATER DIVISION

Reverse Osmosis (RO) and Ultra Filtration (UF)



To protect systems from the drawbacks linked to the type of feed water, NCR Biochemical has modern treatment technologies for every step in the plant.

For years membrane systems have been used to produce water with controlled salinity, instead of the classic resin systems.



PRE-TREATMENT

Proper pretreatment reduces fouling and scaling in reverse osmosis systems.

NCR Biochemical has formulated specific products to be used upstream of primary filtration systems to increase their effectiveness, reduce the pollution load and reduce the SDI of the water to be treated.



POLYREN® 1500 SERIES

- Organic coagulants
- Filtration aids

RO AND UF MEMBRANE TREATMENT

Proper treatment can:

- Prevent the need for early replacement of the membranes
- Maintain the efficiency and functionality of the system
- Garantire il massimo recupero di acqua possibile
- Ensure maximum possible water recovery
- Reduce energy costs
- Reduce downtimes caused by frequent washing of the membranes

Proper biocidal treatment reduces the need to clean the membrane, thereby reducing the overall cost of operation.

Thanks to our targeted treatment packages, it is possible to manage problems related to mineral fouling and prevent scaling (calcium sulphates and carbonates, barium sulphate, silicates, etc.)



PERMATROL® SERIES

Antiscalants and Dispersants: according to the chemical characteristics of the feed water, NCR Biochemical has management software able to identify the best formulation and dosage for maintaining the efficiency of the system in question.



SANITER® SERIES

Bactericides: unfortunately, without appropriate treatment biofouling is inevitable in every membrane system. However, by using our formulations it is possible to minimise the impact of biological growth in the operation of RO systems.

Proper biocidal treatment reduces the need to clean the membrane, thereby reducing the overall cost of operation.



PERMASOL® SERIES

Membrane cleaning: when a membrane needs to be cleaned, our additives remove most of the pollutants (mineral and organic) and restore correct system operation.

POST-TREATMENT



MINERAL (Remineralisers) SERIES

When the permeate produced is intended for specific uses, such as drinking, it requires appropriate reconditioning, therefore NCR has created a range of products with food-grade active ingredients able to restore the correct pH values and the essential saline balance.

In addition to the treatment products, we provide the following services:

- ➔ Feed water characterisation through complete chemical and bacteriological analysis
- ➔ Membrane examination
- ➔ Washing tests
- ➔ Normalisation of plant parameters
- ➔ Personnel training



NCR Biochemical is an international chemical company specialized in water treatment, biotechnology and process additives in the paper and sugar industries. We produce the best chemical technologies, find the best solutions for our customers, develop our own dosing systems and have thirty years experience and expertise in pursuing quality, safety and environmental responsibility. We confront the global industrial reality with a comprehensive scientific approach which brings benefits and results to our clients.



Analysis



Technical assistance



Consulting

www.ncr-biochemical.com



World Network

- Italy | Bologna
- Italy | Milano
- Russia | Syasstroy
- China | Shenzhen
- Luxembourg | Windhof



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