



WATER DIVISION

# Closed circuits





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# Solutions and treatments aimed at protection of plants, in full compliance with environmental and safety

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Although they may seem easy to manage, these types of circuits require particular attention when appraising the necessary treatment. By definition, they have no, or negligible, water exchange and every active ingredient introduced remains in the system.

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The water circulating in these circuits can create significant management difficulties depending on the initial chemical characteristics, metals present, temperatures and presence of pollutants.

Aggressive water can cause the corrosion of metal surfaces, significantly damaging piping or users, and the presence of scaling salts can form deposits and scaling that considerably inhibit heat exchange, resulting in higher energy consumption and even overheating and/or plant downtimes.

To avoid these problems, ensure maximum plant efficiency and reduce energy costs, NCR Biochemical offers the following treatments:

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With our solutions, plants can be preserved and all parts of the circuit can be kept very clean to ensure high heat exchange, in full respect for the environment and worker safety.

## Product range

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### Maintaining and prevention treatments



#### **STABILFLUID 600 SERIES**

- Corrosion inhibitors for high and low temperatures
- Completely organic corrosion inhibitors
- Corrosion inhibitors for specific metals and multi-metallic systems
- Dispersants and scale inhibitors



#### **SANITER SERIES**

- Biocides compliant with BPR (EU Regulation 528/2012) to control biofouling and biological corrosion (iron bacteria and sulphate-reducing bacteria)

### Recovery and remediation treatments



#### **DISPERSOL TDX - BIOCLEAR CR - BIOSOLV N40 SERIES**

- Sludge removers and neutral products to remove old deposits and corrosion residue



#### **BIOSOLV SERIES**

- Cleaner with inhibited acids for the complete rehabilitation of plants

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After completion of the required treatments, NCR Biochemical provides systems for management and control (local and remote) of the main operating parameters such as conductivity measurement, control and adjustment of pH, automated dosing of additives, monitoring of corrosion and fouling, etc.

Analysis of water and deposits, reading process parameters, identification of saturation indices, management simulation using special spreadsheets and performance optimisation are standard services that our technical support provides together with the treatments.



**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](http://www.ncr-biochemical.com)



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