



# ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

## ALMA OSMO Process

Reverse osmosis system for the treatment of industrial waste water



Discover the many benefits of reverse osmosis for your wastewater and process water. The [ALMA OSMO Process](#) is used to treat wastewater or process water from cooling and heating circuits or production water for internal reuse. Our reverse osmosis systems can be individually tailored to your specific requirements. Whether as a space-saving compact system, integrated in our ALMA module (a special technical room container) or integrated in a rack - we offer customized solutions for your needs. In addition to conventional reverse osmosis, the system is also available as a CCRO (closed-circuit) or multi-stage system to achieve a higher permeate yield. Multi-stage systems are particularly suitable for highly contaminated wastewater.

### Applications

- Dairies & cheese dairies
- Water recycling
- Process water for cooling and hot water circuits
- Elimination of trace substances
- Water recovery in the food industry
- Process water treatment



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## Specifications

- Hydraulic capacity from 1 - 50 m<sup>3</sup>/h
- Multi-stage systems as high, medium and low pressure stage possible
- With ceramic or organic membrane modules as required
- Incl. softening system by ion exchange resins
- If required, with upstream ultrafiltration and/or biological pre-treatment

## Advantages

- Conventional or closed-circuit operation possible
- In-house antiscalant and membrane cleaner available
- Energy-saving operation thanks to integrated measurement technology and smart process control thanks to the ALMA vision software
- High permeate yields due to multi-stage plant design

## Reference plant





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ALMAWATECH GmbH - Your plant manufacturer and service provider in industrial water and wastewater technology offers everything from a single source

**Analysis &  
Optimization**

**Planning &  
Consulting**






**Water  
chemicals**

**Operations  
Management**








**Plant engineering**

## Wastewater and process water

-  Treatment for direct and indirect dischargers
-  Pre- and post-treatment of wastewater
-  Process water Recycling
-  Ultrapure water production
-  Individual system solutions for all branches of industry

## Procedure

-  Biological (aerobic/ anaerobic/ anoxic)
-  Precipitation, flocculation and neutralization
-  Filtration & reverse osmosis
-  Oxidation & hygienization
-  Modular systems

Specialized water chemicals from ALMAWATECH for wastewater applications, cooling water circuits, membrane systems and boiler plants.