



# ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

## ALMA OSMO VE

Reverse osmosis system for pure and ultrapure water production



The **ALMA OSMO VE** enables the production of pure and ultrapure water of the highest quality, especially for critical production processes. Our single-stage systems are ideal for producing pure water for industrial rinsing and cleaning processes. Conductivities of up to  $0.1 \mu\text{S}/\text{cm}$  ( $25^\circ\text{C}$ ) can be achieved in our multi-stage systems. In addition to the reverse osmosis system, the ultrapure water systems also integrate additional system components such as ion exchangers, electrodeionization or UV oxidation.

Thanks to the frequency-controlled pumps and efficient concentrate treatment, our systems are characterized by a comparatively low energy requirement and high permeate yields. We customize our reverse osmosis systems 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 tailor-made solutions that meet your requirements.

### Applications

- Medical technology
- Chip industry
- Hydrogen & solar industry
- Electronics industry
- Cosmetics industry
- Biotechnology



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## Specifications

- Hydraulic capacity from 1 - 50 m<sup>3</sup>/h
- TOC concentration up to 0.5 mg/l
- Conductivity up to 0.1 µS/cm (25°C)
- 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 using to the ALMA vision software
- High permeate yields due to multi-stage plant design

## Reference plants





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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.