

# Reverse-Osmosis System

## RO delta



## Features

- ✓ Reliable permeate quality (Type 3)
- ✓ Simple and economical filter change
- ✓ Integrated RO-GUARD pre-treatment cartridge
- ✓ Large, intuitive touchscreen
- ✓ Leakage sensor
- ✓ Pressure reducer
- ✓ Digital monitoring of working pressure and production output
- ✓ Dry-run protection
- ✓ Hydrostatic level probe for precise level measurement of the produced pure water stored in tanks up to 2 metres high

## Systemaufbau

- Wide-range power supply from 90-240V / 50-60Hz
- Housing with easily accessible service cover
- Compact design that can be easily integrated into the laboratory environment
- Consumables can be changed within seconds using quick-release fasteners
- Integrated pressure reducer for different inlet pressures
- Flow meter for monitoring the production output
- Pressure sensor for monitoring the operating pressure and as dry-run protection
- Integrated RO GUARD pre-treatment cartridge protects against impurities in the feed water
- Flush valve for a long service life of the RO membrane

## Optional

- UVC-LED flow-through disinfection for maximum microbial purity
- EDI module as residual desalination for consistently highest pure water quality

## User Interface

- Large, intuitive touchscreen
- Individual setting options for conductivity display in MΩcm or μS/cm
- Conductivity & temperature monitoring, temperature compensated with variable limit value setting
- USP-compliant, high-precision measurement with integrated reference resistors and temperature compensation
- Leakage monitoring with error display and automatic safety shut-off of the water supply
- Continuous monitoring of all relevant parameters including early indication of when consumables need to be changed



## Hydrostatic level probe

- Suitable for pure water level measurement
- The level probe must be lowered to the bottom of the tank
- Measuring range 0...2 mH<sub>2</sub>O
- The relative pressure measuring cell ensures accurate measurement and long-term stability
- Pressure equalisation with the ambient pressure by means of a capillary tube with filter integrated in the connection cable to protect the tube from clogging



## Optional components - EDI module

Low-energy, integrated EDI module for the final demineralization. Reliable high-purity water supply without regeneration or other interruptions. No chemicals needed. Lowest operating costs combined with high, constant quality. Regulating valves and flow meters for setting the pure water and concentrate flow.

Pure water quality	< 0.2 μS/cm (typ. 0.055-0.1 μS/cm)
Recovery rate	90-95 %



## Feed water requirements

Feed water quality	Potable tap water
Conductivity at 25°C	< 1000µS/cm
Total organic carbon (TOC)	< 1ppm
Inlet pressure*	1 – 6bar
Temperature	5 – 35°C

*Additional pre-treatment units are available if the feed water is out of specs*

## Pure water specifications

Performance at 10°C	40 l/h
Retention rate	> 98 % ions, germs and bacteria
Pure water quality (with EDI module or ion exchanger)	< 0.2 µS/cm typ. 0.055-0.1 µS/cm

## Technical data

Ambient temperature	+2 - 35°C
Supply voltage	90-240V / 50-60Hz
Connected load	120W
Connection size	R ¾" Inlet, 8mm Outlet
Signal tank level	0.5-4.5V or 4-20mA

## Dimensions

