Reverse osmosis system RO gamma

Ready-to-connect RO system in a cabinet housing for wall mounting for central supply of type III + 15883 water. 5“ touch display for controlling and displaying all operating and performance parameters, as well as displaying the permeate conductivity. Fully automatic rinsing cycles. Modular capacity increase possible at a later date.



Scope of delivery

Cabinet (IP 55) with transparent door to accommodate all system components

Reverse osmosis unit for demineralization and removal of organic and inorganic impurities

5“ touch display for controlling and displaying all operating and performance parameters

Reverse osmosis



- ✓ Solenoid valves for raw water and quality rinsing
- ✓ Measuring cell for determining the pure water conductivity
- ✓ Concentrate recycling for minimizing the concentrate
- ✓ Safety pressure sensor for switching off if the feed water pressure is too low
- ✓ High-pressure pump for generating the working pressure incl. dry-running protection
- ✓ Reverse osmosis membrane incl. pressure pipe and all necessary fittings
- ✓ Pressure sensor with limit setting for monitoring the operating pressure
- ✓ Flow sensor for permeate monitoring with limit setting
- ✓ Flow meter for concentrate monitoring
- ✓ Regulating valves for setting the working pressure and WCF rate
- ✓ Leakage detector

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User interface



- Large and intuitive touchscreen
- Individual adjustment for displaying the conductivity (MΩcm or µS/cm)
- Conductivity and temperature monitoring for pure water, temperature compensated with stepless limit adjustments
- High-precision measuring with integrated reference resistors as well as deactivatable temperature compensation acc. to USP
- Leakage monitor with error message and automatic shut-off of the feed water supply

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 mH2O
- 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

Feed water requirements

Feed water quality	Potable tap water
Conductivity at 25°C	< 2000µS/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

Retention rate	> 98% ions, germs and bacteria
Performance	60 or 120l/h
WCF rate	up to 75% (adjustable)

[1] The actual values may vary depending on the nature and concentration of the contaminants in the feed water

Technical data

Ambient temperature	+2 - 35°C
Inlet pressue	2 - 6 bar
Operating pressure RO	max. 14 bar
Connected load	0,8 kW
Supply voltage	230 Volt / 50 Hz
Connection size	R ¾“
Dimensions	W 600 x D 400 x H 800 mm
Weight	approx.55 kg