stakpure RO 300 central

This ready to connect reverse osmosis system produces deionized water from drinking water that has been previously softened or hardness stabilized. It is installed in a cabinet with a lockable door that has a viewing window and is controlled by a digital microprocessor. It can be modularly retrofitted for increased capacity.



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Components and scope of delivery

- Powder coated cabinet, viewing window and mounting plate
- √ Pre-filter unit
- √ High-pressure impeller pump
- √ High-pressure pressure gauge
- √ Inlet pressure gauge
- √ Flow meter for permeate and concentrate
- √ One set of regulating valves
- √ Inlet solenoid valve
- √ Rinsing solenoid valve
- √ Pressure switch
- √ High performance reverse osmosis module
- ✓ Pressure pipe
- √ 2 Conductivity measuring cells
- √ Complete piping (PA, PP, POM, stainless steel)
- √ Multi-language microprocessor system control with LCD display





Digital microprocessor system control

The multi-language microprocessor system control with LCD display is designed for the controlling and monitoring of reverse osmosis systems. Features include the display of raw water and permeate conductivities with limit value settings and temperature compensation, fully automatic rinsing cycles, potential-free relay and optional 4-20 mA outputs. The following functions / operating modes are carried out and displayed:

- √ Stand-by
- √ Production
- √ Rinse following production
- √ Interval rinsing
- √ Maintenance

Adaptive options because of the programmable configuration that allows them to be stored.

Features and benefits

Menu-driven programming in a two-line display

- √ Choice of language: English, French, Spanish, Italian or Dutch
- √ Usage can be matched to user-specific requirements via programmable options.
- √ Symbols on the control keys simplify handling and controlling
- √ Universal use, even for larger reverse osmosis systems
- √ Deionized water production can be controlled manually or via the level switch.
- √ The maintenance interval display can be programmed via a code
- √ The service number can be called to display.
- √ The Info-key calls the status display for the following conditions:
 - Current status of inputs and outputs: service telephone number,
 - the software version, programming status, type of fault messages,
 - interval rinsing with actual time interval, manual rinsing with time,
 - conductivity measuring probe, cell constants
- Display of the actual raw water and permeate conductivities with indication of the deionizing rate in the large green LED display
- ✓ Option of a printed circuit board for a 4-20mA recorder output



Production stop, storage tank full/empty, overpressure, lack of raw water, protective motor switch, alarm reset, temperature probe (optional), concentrate monitoring

- √ Integrated conductivity meter with measuring range shifting
- √ Cell constants adjustable for conductivity measurements in the 0.1- 100000µS/cm range
- √ Cell constants programmable in the 0.01-10.00cm range
- √ Manual and automatic temperature compensation
- √ Extension of conductivity mesurement via the dual-function display
- √ Optional thermal circuit breaker with fault message for the pressure pump
- √ Outputs for:
 - Pressure pump (protection), inlet solenoid valve, rinsing valve, permeate valve, fault message contact
- ✓ Power failures cause no damage as all programme functions are stored without a storage battery.
- High microprocessor storage capacity with a "Watchdog" against illegal "Operation Codes" and frequency monitoring
- √ The control system function conforms to the EMC standard as it has galvanic separation between the microprocessor and input and output circuits and an extra installed filter
- The available input/output voltages (input/output) are 24/24V 115/115V 230/230V

Technical data

For connection to drinking water that complies with German drinking water regulations

Blocking index max. 3

Salt content max. 2,000 mg/l

 $\begin{tabular}{ll} Free chlorine concentration & < 0.01 mg/l\\ Manganese content & < 0.05 mg/l\\ Iron content & < 0.05 mg/l\\ CO_2 content & max. 15 mg/l\\ SiO_2 content & max. 0.4 mg/l\\ \end{tabular}$

pH-Range 4 to 11



Pure water values

Performance (at 10°C) 300 l/h

RO Membrane retention quota > 99 % salts, microorganisms and bacteria

WCF-Rate Settable up to 75 %

System data

Ambient temperature 5 to 40°C

Water temperature 5 to 35°C

RO raw water pressure 2 to 6 bar

RO operating pressure max. 14 bar

Supply voltage 400 Volt / 50 Hz

Total connected load 1.6 kW Inlet connector DN 20 Outlet connector DN 20

Dimensions W 800 x D 600 x H 1800 mm

Weight approx. 220 kg

Article number 15300300

