

ROTEC C

REVERSE OSMOSIS UNIT

The ROTEC C series comprises our compact reverse osmosis systems as wall-mounted devices. The systems are ideal for applications where small water volumes in good quality are needed. Besides the very short delivery period, the ROTEC C systems offer excellent quality and a high level of operating reliability.

Features:

- Low energy consumption with high yield
- Fully automatic reverse osmosis
- Highly efficient membrane system
- Completely preassembled
- Space-saving wall-mounted installation
- Reliable operating mode with product flow value monitoring
- Simple start-up
- Optionally available with pivoting frame or frame stand

Components:

- Plastic housing for wall-mounting 5 µm fine filter
- Rotary vane pump
- GRP pressure pipes
- Reverse osmosis membrane
- Parameter monitoring
- Microprocessor control
- All required fittings and measuring instruments for configuration of the system and control of hydraulic parameters

Operating conditions:

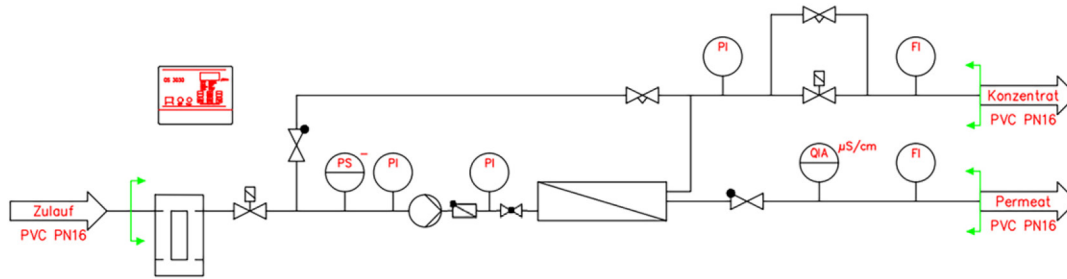
The requirements for the water inflow to the systems are listed below:

Inlet pressure	2-6 bar
Temperature range	5-40° C
pH-range	2-11 continuously 1-12 temporarily during cleaning
Colloid index (SDI 15)	< 3
Permeate counterpressure	max. 0.3 bar in complete stop
Free chlorine (Cl ₂)	< 0.05 mg/l
Iron (Fe)	max. 0.1 mg/l
Manganese (Mn)	max. 0.05 mg/l

Further operating conditions are listed under the required operating conditions for reverse osmosis systems.



Process diagram



Example diagram

Technical data:

Type		ROTEC C100	ROTEC C200	ROTEC C300	ROTEC C400
Permeate volume**	l/h	100	200	300	400
Inlet quantity**	l/h	133	267	375	500
Concentrate volume**	l/h	33	67	75	100
Operating mode		Reverse osmosis			
Yield	%	75-80			
Salt detention*	%	> 96			
Operating pressure*	bar	12			
Electrical connection		230V, 50Hz, 0.55kW			
Membrane type*		XLE 4021	XLE 4021	XLE 4040 XLE 4021	XLE 4040
Number of membranes		1	2	2	2
Number of pressure pipes:		1	2	2	2
Activation		-	1:1	1:1	1:1
Connection	Input Permeate Concentrate	DN15 DN15 DN15			
Dimensions*	Length (mm) Width (mm) Height (mm)	800 300 1 200			

*All data are approximate values

**For standard conditions