

# ROTEC C

## Reverse Osmosis Unit

The ROTEK C series includes our compact reverse osmosis wall devices. These units are well-suited for applications with small amounts of good-quality water. The ROTEK C series is characterised by short delivery times, excellent quality as well as operational reliability.

### Properties:

- low energy input at high output
- fully automatic reverse osmosis
- highly efficient membrane system
- completely pre-assembled
- space-saving wall installation
- reliable operation with integrated product conductivity monitoring
- easy commissioning
- optionally with swing frame or frame stand

### Components:

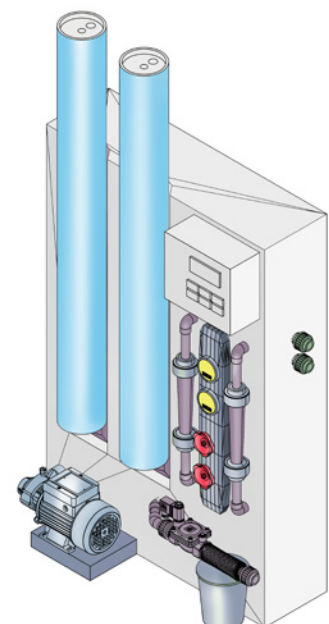
- plastic housing for wall installation
- 5 µm fine filter
- rotary vane pump
- GFRP pressure vessels
- reverse osmosis membrane
- conductivity monitoring
- microprocessor control
- all fittings and measuring instruments necessary for the installation of the plant and monitoring the hydraulic parameters

### Operating Conditions:

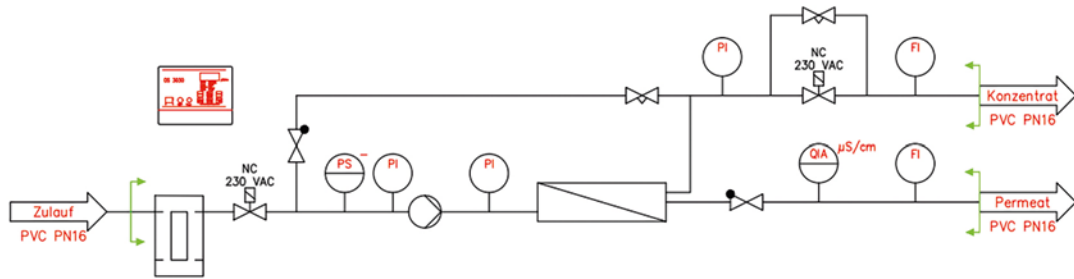
Hereinafter, the requirements for the inlet water:

Inlet pressure	2-6 bar
Temperature range	5-40° C
pH range	2-11 constant
	1-12 momentary during cleansing
Colloid index (SDI 15)	< 3
Permeate counterpressure	max. 0.3 bar at standstill
Free chlorine (Cl <sub>2</sub> )	< 0.05 mg/l
Iron (Fe)	max. 0.1 mg/l
Manganese (Mn)	max. 0.05 mg/l

Further requirements are listed in the obligatory operating conditions for reverse osmosis systems.



# Process diagram



sample scheme

## Technical Data:

Type		ROTEC C100	ROTEC C200	ROTEC C300	ROTEC C400
Permeate volume**	l/h	100	200	300	400
Feed flow	l/h	133	267	375	500
Concentrate volume**	l/h	33	67	75	100
Operating mode		Reverse Osmosis			
Output	%	75-80			
Salt rejection*	%	> 96			
Operating pressure*	bar	12			
Electric connection		230V, 50Hz, 0,55kW			
Membrane type*		XLE 4021	XLE 4021	XLE 4040 XLE 4021	XLE 4040
Membrane quantity		1	2	2	2
Circuit		1	1:1	1:1	1:1
Connection	Inlet Permeate Concentrate	1/2" DN15 DN15			
Dimensions	Length (mm) Width (mm) Height (mm)	800 300 1 200			

\*all specifications are approximate

\*\*under standard conditions