

Ultra Clear® RO Pure Water System



HIGHLY EFFICIENT & COST EFFECTIVE

The Ultra Clear® RO series produces high-quality, pure water from soft or hard stabilized drinking water using reverse osmosis. With a high salt retention rate and low energy consumption, the low-energy membranes ensure efficient and economical operation.

Integrated, automatic membrane flushing programs allow the units to operate on untreated municipal water. The factory-set product water recovery rate goes up to 50%, and with an optional softening system, a recovery of up to 75% can be achieved. The display indicates input and product water quality, conductivity, fault messages, as well as tank level, operating pressure, maintenance intervals, and more.

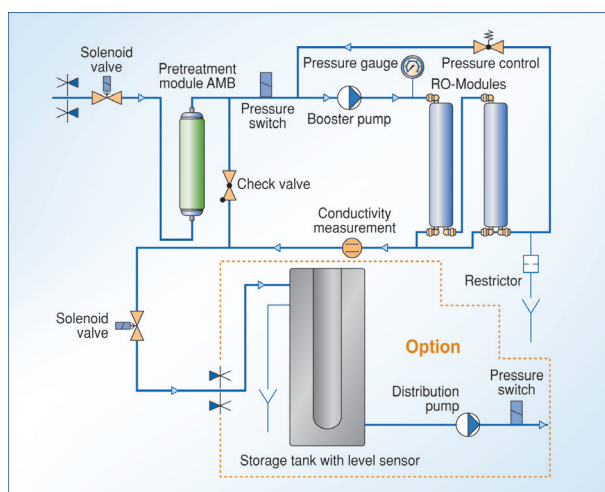
For the operation of reverse osmosis systems, Evoqua recommends the use of a storage tank to obtain a system that is ideally matched to the desired production needs. All models include a choice of tank sizes to meet different volume requirements and to compensate for short-term higher-than-normal demands.

BENEFITS

- Simple change of modules due to quick-fit coupler
- Service/maintenance report
- Scope of supply includes consumables
- Made in Germany

TYPICAL APPLICATIONS

- Feed for laboratory ultrapure water systems
- General chemistry
- Laboratory washing machines including final rinse
- Feed for autoclaves and environmental chambers
- Buffer preparation



SPECIFICATIONS

Ultra Clear RO	20	30	60	100
Production rate (l/h)	20	30	60	100
Rejection rate** up to (%)	> 98	> 98	> 98	> 98
Rejection rate for bacteria (%)	> 99	> 98	> 99	> 99
Rejection rate for particles (%)	> 99	> 99	> 99	> 99
Feed Water Specifications				
Pressure (bar)	0,1 - 5,0	0,1 - 5,0	2 - 6	2 - 6
Conductivity (µS/cm)	< 2000	< 2000	< 2000	< 2000
Colloid Index (SDI)	< 3	< 3	< 3	< 3
Free chlorine (mg/l)	< 0,1	< 0,1	< 0,1	< 0,1
Total iron (mg/l)	< 0,1	< 0,1	< 0,1	< 0,1
CO ₂ (mg/l)	< 15	< 15	< 15	< 15
pH	3 - 9	3 - 9	3 - 9	3 - 9
Temperature (°C)	5 - 30	5 - 30	5 - 30	5 - 30
Technical Data				
Power consumption (kW/h)	0,2	0,2	1,8	1,8
Power supply (V/Hz)	100 - 240/50 - 60		230/50-60	
Dimension (H x W x D) (mm)	530 x 340 x 420			
Shipping weight (kg)	32	32	33	35
Item Number	W3T441745	W3T441746	W3T199978	W3T198158

*: 115 V upon request; **: based on the RO membrane elements actually used



Ultra Clear RO System with 80 L tank

CONSUMABLES

Item Number	Description	Change frequency*
W3T197613	Pretreatment module AMB	3 - 6 months
W3T197620	RO module 10 l/h**	2 - 3 years
W3T439875	RO module 15 l/h***	2 - 3 years
W3T197580	RO module Ultra Clear RO 20 up to Ultra Clear RO 100	2 - 3 years
W3T339714	CO ₂ /UV kit for Ultra Clear 30 l tank	12 months
W3T339715	CO ₂ /UV kit for Ultra Clear 60 l tank	12 months
W3T199837	CO ₂ trap CT1/Vent filter for 80 l	12 months

* : Change intervals may be shorter, depending on feed water and consumption.

** : 1 x W3T197620 for Ultra Clear RO 10, 2 x W3T197620 for Ultra Clear RO 20.

***: 2 x W3T439875 for Ultra Clear RO 30

ACCESSORIES*

Item Number	Description
W3T324512	30 l tank without pump
W3T324513	60 l tank without pump
W3T355215	60 l tank with level sensor 4-20 mA; pump 1.5 l/min 2 bar
W3T324515	80 l with pump 8 l/min for RO 20/30
W3T324514	80 l tank with pump 1.2 l/min for RO 20/30
W3T197510	80 l tank with pump 8 l/min for RO 60/100
W3T197526	80 l tank with pump 1.2 l/min for RO 60/100

*: Other accessories available on request.

TEST KITS

W2T870161	Carbon dioxide test kit
W2T870160	Silica test kit