



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.

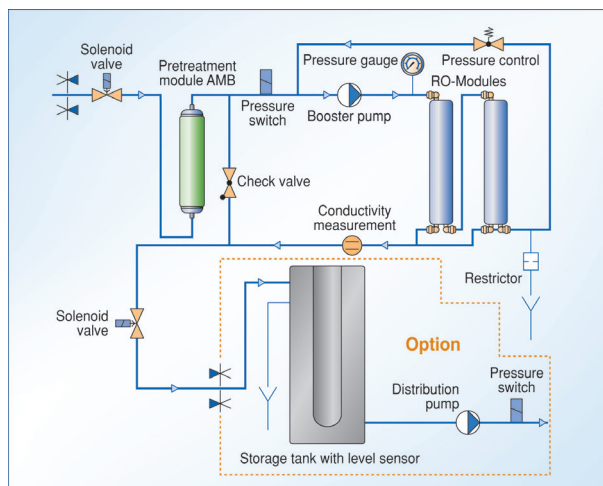
For the operation of reverse osmosis systems, Evoqua recommends the use of a storage tank to obtain a system that is ideally matched to the desired production needs. All models include a choice of tank sizes to meet different volume requirements and to compensate for short-term higher-than-normal demands.

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 × B × T) (mm)	530 x 340 x 420			
Shipping weight (kg)	32	32	33	35
Item Number	W3T441745	W3T441746	W3T199978	W3T198158



Ultra Clear RO System with 80 L tank

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

CONSUMABLES*

Item Number	Description
W3T197613	Pretreatment module AMB
W3T197620	RO module 10 l/h + 20 l/h for Ultra Clear RO 10 and RO 20
W3T439875	RO module HP, 98%, 15 l/h
W3T439041	2 x 10 l/h RO module retrofit kit Ultra Clear RO 20
W3T439913	2 x 15 l/h RO module retrofit kit Ultra Clear RO 30
W3T197580	RO module Ultra Clear RO 20 up to Ultra Clear RO 100 and Ultra Clear EDI 55
W3T197618	Pretreatment module VMD for inorganic application
W3T199848	Conditioning module

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

TEST KITS

W2T870161	Carbon Dioxide test kit
W2T870160	Silica test kit

ACCESSORIES*

Item Number	Description
W3T324512	30 l tank with level sensor 4-20 mA as of 2015
W3T324513	60 l tank with level sensor 4-20 mA as of 2015
W3T355215	60 l tank with level sensor 4-20 mA; pump 1.5 l/min 2 bar as of 2015
W3T324515	80 l with pump 8 l/min 4-20 mA as of 2015*
W3T324514	80 l tank with pump 1.2 l/min 4-20 mA as of 2015*
W3T197510	80 l tank with pump 8 l/min 4-20 mA until yoc 2015**
W3T197526	80 l tank with pump 1.2 l/min 4-20 mA until yoc 2015**
W3T339714	CO ₂ /UV kit for Ultra Clear 30 l tank**
W3T339715	CO ₂ /UV kit for Ultra Clear 60 l tank**
W3T199837	CO ₂ -Falle CT1/Vent-Filter für 80 l**
W3T314413	Degassing unit up to max. 150 l/h***
W3T428768	Communication Interface Module (LAB)

*: Other accessories available on request **: Change intervals may be shorter, depending on feed water and consumption ***: Must be operated in conjunction with a filter housing including a filter cartridge.