



ULTRA CLEAR® RO PURE WATER SYSTEM

HIGH QUALITY, LOW PRICE

The Ultra Clear® RO Series produces high quality water with very low energy consumption. The use of “low energy” membranes provide very efficient and economical operation. High quality material standards guarantee long service life. The Ultra Clear RO Series uses the newest pump technology, which runs without the traditional e-motor, and operates nearly noiseless. Due to an integrated automatic membrane rinse cycle, in many cases, the systems can operate on untreated city water. Recovery rates up to 75 % are possible with optional water softening.

Product water recovery is up to 50 %, therefore Ultra Clear RO Series also conserve water. Storage tanks help for the RO systems to provide additional water volume during times of high demand. The storage tank can also be used to supply water for other lab equipment. The storage tank allows higher volumes of water to be used for short periods that would otherwise be limited to the RO system production rate.

A storage tank basically guarantees that water is available when needed. The proper storage tank size and system configuration will be recommended based on application and water volume requirements to ensure optimum service from the equipment. Standard tanks are available in 30, 60 and 80 liter sizes. Optional tank sizes are also available up to 3.000 l.

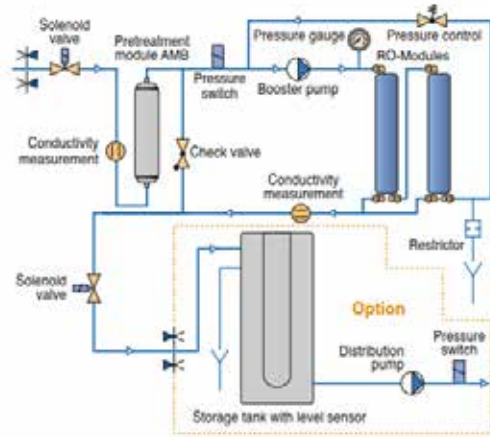
All systems display inlet and product water quality. The salt reduction rate will be shown in percentage. Most systems on the market have less than 20 % recovery rate. Automatic, user-friendly maintenance alerts notify the operator when system service is required.

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

System Performance		Ultra Clear RO 20	Ultra Clear RO 30	Ultra Clear RO 60	Ultra Clear RO 100
RO Production rate	l/h	20	30	60	100
Rejection rate up to	%	98	98	98	98
Rejection rate for bacteria	%	99	99	99	99
Rejection rate for particles	%	99	99	99	99
Feed Water Specifications					
Pressure	bar	2 - 6	2 - 6	2 - 6	2 - 6
Conductivity	µS/cm	< 2000**	< 2000**	< 2000**	< 2000**
Colloid Index	SDI	< 12**	< 12**	< 12**	< 12**
Free Chlorine	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
Total iron	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
Shipping weight	kg	32	32	33	35
Power consumption	kW/h	0.2	0.2	0.2	0.2
Power supply	V/Hz	240/50 - 60	240/50 - 60	240/50 - 60	240/50 - 60
Dimension (HxWxD)	mm	530 x 340 x 420	530 x 340 x 420	530 x 340 x 420	530 x 340 x 420
Item number		W3T441745	W3T441745	W3T199978	W3T198158

* = 115 V upon request; ** = with a pre-filter

CONSUMABLES

Item Number	Description	Change Frequency*
W3T197613	Pre-treatment module AMB	3 - 6 months
W3T199848	Conditioning module	3 - 6 months
W3T197620	RO module 20 l/h	2 - 3 years
W3T439875	RO module 15 l/h	2 - 3 years
W3T197580	RO module 60 - 100 l/h **	2 - 3 years
W3T199197	CO ₂ Trap CT1, replacement 30, 60, 80 l tank	12 months
W2T558519	UV Kit 30, 60, 80 l tank	12 months
W3T324529	UV Kit 30, 60 l tank	12 months
W3T339692	UV Kit 80 l tank	12 months

* Change intervals possibly shorter, depending on feed water and consumption.

** Amount of modules depends on system size

ACCESSORIES

Item Number	Description	Change Frequency*
W3T324512	Tank 30 l without pump	
W3T324513	Tank 60 l without pump	
W3T234643	Tank 60 l with pump	
W3T324515	Tank 80 l with pump 8 l/min for RO 20 / 30	
W3T324514	Tank 80 l with pump 1.2 l/min for RO 20 / 30	
W3T197510	Tank 80 l with pump 8 l/min for RO 60 / 100	
W3T197526	Tank 80 l with pump 1.2 l/min for RO 60 / 100	
W3T339714	CO ₂ + UV Kit 30 l tank	12 months
W3T339715	CO ₂ + UV Kit 60 l tank	12 months
W3T199837	CO ₂ Trap CT 1 / Vent Filter 80 l	12 months



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