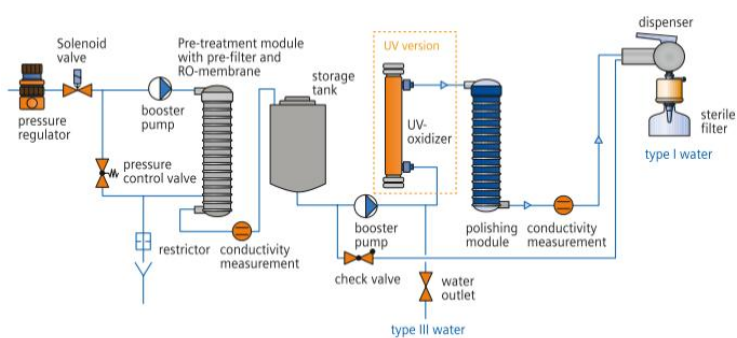




**evoqua**  
WATER TECHNOLOGIES

## LABOSTAR PRO TWF

FROM TAP TO ULTRAPURE WATER –  
ONLY ONE INNOVATIVE STEP



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The LaboStar PRO TWF systems produce ultrapure water straight from your drinking water supply. This equipment incorporates a pre-filtration unit and a reverse osmosis membrane. The pure water collects in an integrated tank and is finally circulated through the polishing module by a circulation pump. The user can extract either Type III water from the tank or Type I water from the dispenser with a quality of 0.055  $\mu\text{S}/\text{cm}$ , equivalent to 18.2  $\text{M}\Omega\text{-cm}$ , and TOC of between 1 and 10 ppb, depending on the system type. The RO water quality is displayed as well. The LaboStar PRO TWF equipment can cost-effectively produce small amounts of analytical-grade water. The water quality exceeds all relevant standards including ASTM Type I, CLSI and ISO 3696 Type I.

A conductivity sensor constantly measures the product water purity in the recirculation loop. A charged 0.2  $\mu\text{m}$  sterile filter at the dispenser removes bacteria and endotoxins, eliminating the need for an ultra-filter. An uncharged 0.2  $\mu\text{m}$  final filter is also available. LaboStar PRO TWF systems are delivered with the first set of modules and filters.

#### TYPICAL APPLICATIONS LaboStar PRO TWF:

- General analysis
- Standard buffer
- AAS
- GC
- IC
- ICP
- Cell and tissue culture
- Pyrogen sensitive applications
- Type III water
- QC Food Industry

#### TYPICAL APPLICATIONS LaboStar PRO TWF UV:

- Micro- und molecular biology
- PCR
- HPLC
- TOC analysis
- Type III water

#### Specifications:

		LaboStar PRO TWF	LaboStar PRO TWF UV
<b>Type III water specifications</b>			
Flow rate @ 25°C	l/h	9	9
Flow rate @ 20°C	l/h	8	8
Flow rate @ 15°C	l/h	7	7
Rejection rate for ions	%	98 max	98 max
Rejection rate for bacteria	%	>99	>99
Rejection rate for particles	%	>99	>99
<b>Type I water specifications</b>			
Output up to	l/min	1,2	1,2
Conductivity @ 25° C	$\mu\text{S}/\text{cm}$	0,055	0,055
Resistivity @ 25° C	$\text{M}\Omega\text{-cm}$	18,2	18,2
TOC	ppb	5-10	1-5
Bacteria	cfu/ml	<1	<1
Endotoxins	EU/ml	<0,001	<0,001
Particles > 0.2 $\mu\text{m}$	per ml	<1	<1
<b>Feed water specifications</b>			
Pressure	bar	3-5	3-5
Conductivity	$\mu\text{S}/\text{cm}$	<1400	<1400
Colloid Index	SDI	<3	<3
Free Chlorine	mg/l	<0,5	<0,5
Fe	mg/l	<0,1	<0,1
CO2 max.	mg/l	15	15
Water temperature	°C	5-30	5-30
Ambient temperature	°C	<b>5-35</b>	<b>5-35</b>
<b>Connections</b>			

Raw water	R =	5/16" push-in / flex tube	5/16" push-in / flex tube
Pure water	d =	1/4" push-in / flex tube	1/4" push-in / flex tube
Drain concentrate	d =	3/8" push-in / flex tube	3/8" push-in / flex tube
<b>Power requirements</b>			
Power consumption	W	270	270
Power supply	V/Hz	100-240V / 50-60Hz	100-240V / 50-60Hz
<b>Dimensions</b>			
Height	mm	535	535
Width	mm	400	400
Depth	mm	520	520
Shipping weight	kg		
<b>Catalog number</b>		W3T324337	W3T324338

Consumables (for LaboStar PRO TWF Versions from April 2015)

<b>Item number</b>	<b>Description</b>	<b>Change frequency</b>
W3T197613	Pre-treatment module AMB	6 – 12 months
W3T197618	Pre-treatment module VMD	6 – 12 months
W2T558521	UV replacement bulb	12 months
W3T197694	Polishing Module MFIID	6 – 12 months
W3T199853	Polishing Module ILT	6 – 12 months
W3T199279	Sterile filter 0.2 µm (pack of 3)	6 months
W3T199768	Disinfection kit (pack of 3)	-
W3T197620	RO Replacement module 10 l/h	2 – 3 years