



LABOSTAR® PRO TWF

FROM TAP WATER TO ULTRAPURE WATER- ONLY ONE INNOVATIVE STEP

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 built-in 7l storage 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. System can be upgraded with 30 or 60l storage tank.

A conductivity sensor constantly measures the product water purity in the recirculation loop. A positively charged 0.2 μm sterile filter at the dispenser removes bacteria and endotoxins, eliminating the need for an expensive ultra-filter. An uncharged 0.2 μm sterile 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
- Type III water
- QC Food Industry
- Pyrogen sensitive applications
- Cell and tissue culture
- ICP

Typical Applications LaboStar PRO TWF UV

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

SPECIFICATIONS

Type III water specifications

		LaboStar PRO TWF	LaboStar PRO TWF UV
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

Type I water specifications

Output up to	l/min	1,2	1,2
Conductivity @ 25° C	µS/cm	0,055	0,055
Resistivity @ 25° C	MΩ-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 µm	per ml	<1	<1

Feed water specifications

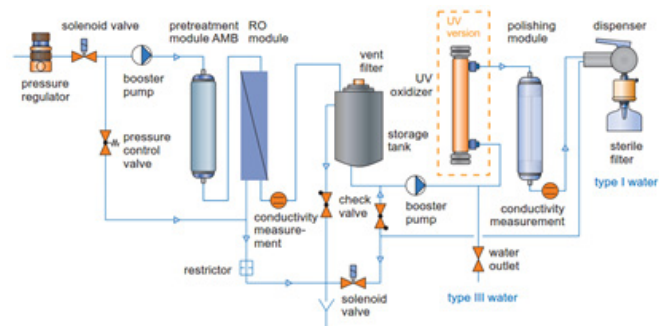
Pressure	bar	3-5	3-5
Conductivity	µS/cm	<1400	<1400
Colloid Index	SDI	<3	<3
TOC	ppb	<1000	<1000
Free Chlorine	mg/l	<0,5	<0,5
Fe	mg/l	<0,1	<0,1
CO ² max.	mg/l	<15	<15
Water temperature	°C	5-30	5-30
Ambient temperature	°C	5-35	5-35

Connections

Raw water	R =	5/16" push-in / flex tube	5/16" push-in / flex tube
Pure water	d =	¼" push-in / flex tube	¼" push-in / flex tube
Drain concentrate	d =	3/8" push-in / flex tube	3/8" push-in / flex tube

Power requirements

Power consumption	W	270	270
Power supply	V/Hz	100-240V / 50-60Hz	100-240V / 50-60Hz
Dimensions (HxWxD)	mm	535x400x520	535x400x520
Catalog number		W3T324337	W3T324338



CONSUMABLES & ACCESSORIES

Item Number	Description	Change Frequency
W3T197613	Pre-treatment module AMB	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 with endotoxin retention (pack of 3)	6 months
W3T199209	Sterile filter 0.2 µm without endotoxin retention (pack of 3)	6 month
W3T199768	Disinfection kit (pack of 3)	-
W3T197620	RO Replacement module 10 l/h	2 - 3 years
W3T199880	Vent Filter for the tank	
W3T199556	Wall bracket f. LaboStar Pro TWF	
W3T324494	30 l Storage tank for LaboStar Pro TWF	
W3T324495	60 l Storage tank for LaboStar Pro TWF	
W3T314413	degassing unit up to 150 l/h	



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LaboStarPROTWF0916