



LABOSTAR® PRO

HIGHEST WATER QUALITY

The LaboStar® PRO system is a cost effective means of producing analytical grade water. This extremely compact ultrapure water system can be used on a laboratory bench. The water produced by the system has a conductivity of 0.055 $\mu\text{S}/\text{cm}$ (equivalent to 18.2 $\text{M}\Omega\text{-cm}$) and a TOC value of < 10 ppb. The water produced by the ultraviolet (UV) version has a TOC value of 1 - 5 ppb. This water quality exceeds all relevant standards including ASTM Type I, CLSI (Clinical Laboratory Standards Institute) and ISO 3696 Type I.

LaboStar® system is fed with either deionized water, distilled water or permeate from a reverse osmosis unit. The selection of treatment materials in LaboStar™ 2 and 4 systems, along with the DI polishing modules, guarantees that the product water meets the highest quality standards. A conductivity meter in the recirculation section continually monitors the purity of the product water.

A 0.2 μm positively charged sterile filter at the dispenser removes bacteria and endotoxins. It makes possible to produce pure water with an endotoxin value of <0.001 EU/ml without the need for any further investment in an expensive ultra filter. An uncharged 0.2 μm sterile filter is also available.

The LaboStar 4 system is a mobile bench device with an integrated tank which can be directly manually filled with feed water. LaboStar™ systems are delivered with the first set of modules and filters and are ready for use

LaboStar PRO Advantages

- Ultrapure water circulation right into the dispenser head
- Easy to dispense water using the practical dispenser
- Whisper operation mode
- Rapid and simple disinfection
- Quality monitoring after each purification stage
- Pressure reducer included
- Simple module exchange via quick-release connections
- Protective jacket at the end of the sterile filter

LaboStar PRO UV 4 Advantages

- 7 liter built-in tank
- Suitable for mobile use at different locations
- Ultrapure water is ready for use within minutes after filling the tank

SPECIFICATIONS

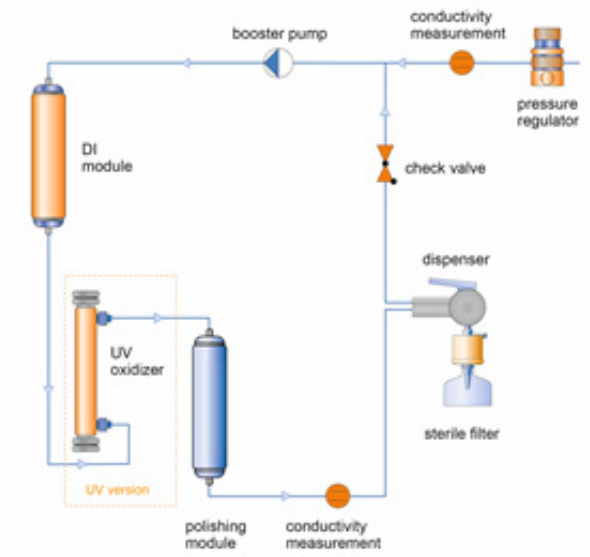
Ultrapure water specifications		LaboStar PRO DI 2	LaboStar PRO UV 2	LaboStar PRO UV 4
Output up to	l/min	1,5*	1,5*	1,5*
Conductivity at 25° C	µS/cm	0,055	0,055	0,055
Resistivity at 25° C	MΩ-cm	18,2	18,2	18,2
TOC	ppb	5-10	1-5	1-5
Bacteria	cfu/ml	<1**	<1**	<1**
Endotoxins	EU/ml	<0,001**	<0,001**	<0,001**
Particles > 0.2 µm	per ml	<1	<1	<1
Feed water specifications				
Pressure	bar	0,1-6	0,1-6	-
Conductivity	µS/cm	<20	<20	<20
Colloid Index	SDI	<3	<3	<3
TOC	ppb	<50	<50	<50
Free Chlorine	mg/l	<0,1	<0,1	<0,1
Fe	mg/l	<0,1	<0,1	<0,1
CO2 max.	mg/l	<15	<15	<15
Water temperature	°C	5-30	5-30	5-30
Ambient temperature	°C	5-35	5-35	5-35
Connections				
Raw water	R =	5/16" push-in / flex tube***	5/16" push-in / flex tube***	-
Pure water	d =	-	-	-
Drain	d =	3/8" push-in / flex tube	3/8" push-in / flex tube	3/8" push-in / flex tube
Power requirements				
Power consumption	W	270	270	270
Power supply	v/Hz	100-240V / 50-60Hz	100-240V / 50-60Hz	100-240V / 50-60Hz
Dimensions (HxWxD)	mm	535x400x410	535x400x410	535x400x520
Catalog number		W3T324339	W3T324340	W3T324491

*depends on primary pressure, min. 1.0 LPM > 0,1 bar inlet pressure

**with sterile filter

***Caution LaboStar®-Polisher Inlet connections are as follow:

- High pressure inlet port (>2bar): 5/16" push-in
- Low pressure inlet port (<2bar): ¼" push-in



CONSUMABLES & ACCESSORIES

Item Number	Description	Change Frequency
W3T197618	Pretreatment module VMD (systems without UV)	6 - 12 months
W3T197621	Pretreatment module DTO (systems with UV)	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 months
W3T199209	Sterile filter 0.2 µm (pack of 3)	6 months
W3T199768	Disinfection kit (pack of 3)	-



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