



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

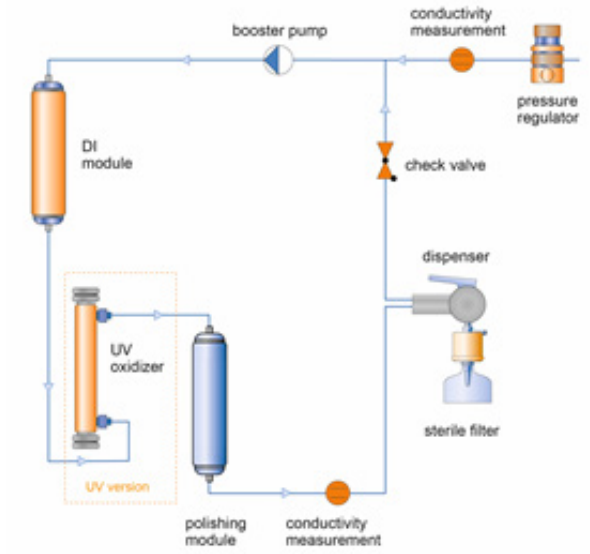
Ultrapure water specifications		LaboStar PRO DI 2	LaboStar PRO UV 2	LaboStar PRO UV 4
Output up to	l/min	1,5*	1,5*	1,5*
Conductivity at 25° C	µS/cm	0,055	0,055	0,055
Resistivity at 25° C	MΩ-cm	18,2	18,2	18,2
TOC	ppb	5-10	1-5	1-5
Bacteria	cfu/ml	<1**	<1**	<1**
Endotoxins	EU/ml	<0,001**	<0,001**	<0,001**
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)	-



Hyxo Oy
 PL 16 (Palokorvenkatu 2)
 04261 Kerava
 Puh. 010 417 4500
 hyxo@hyxo.fi • www.hyxo.fi

Fahrenberg 8, 22885 Barsbüttel, Germany

Tel. +49 (0)40 670 868 -6

Fax +49 (0)40 670 868 -44

www.evoqua.com/en/brands/lab

Labostar is a registered trademark of Evoqua, its subsidiaries or affiliates, in some countries.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

© 2016 Evoqua Water Technologies LLC

Subject to change without notice

LaboStarPRO0916