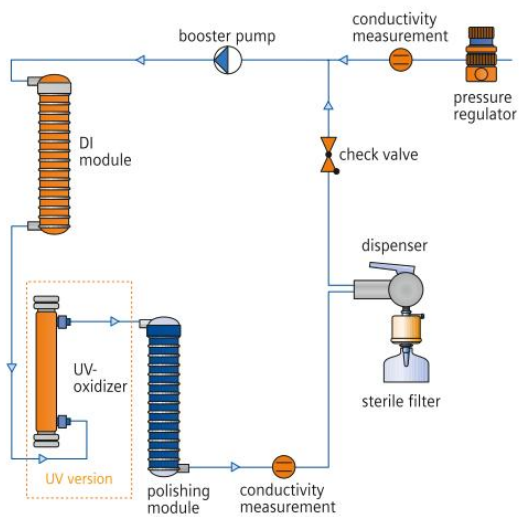


## LABOSTAR

HIGHEST WATER QUALITY



Evoqua Water Technologies GmbH, Fahrenberg 8, 22885 Barsbüttel, Germany

[www.evoqua.com](http://www.evoqua.com)

The LaboStar 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 deionized (DI) version 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  $\mu\text{m}$  charged sterile filter at the dispenser removes bacteria and endotoxins. This makes it possible to produce pure water with an endotoxin content of <0.001 EU/ml without the need for any further investment in an ultra filter. An uncharged 0.2  $\mu\text{m}$  final filter is also available.

The LaboStar 4 system is a mobile bench device with an integrated tank which can be directly 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 of ultrapure water
- Pressure reducer included (only type 2)
- Simple module exchange via quick-release connections
- Protective jacket at the end of the sterile filter

#### LABOSTAR PRO UV 4 ADVANTAGES:

- 7 liter tank volume
- Suitable for mobile use
- Ultrapure water is ready for use within minutes after filling the tank
- System can be used at different locations

Specifications:

<b>Ultrapure water specifications</b>		<b>LaboStar PRO DI 2</b>	<b>LaboStar PRO UV 2</b>	<b>LaboStar PRO UV 4</b>
Output up to	l/min	1,5*	1,5*	1,2*
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
<b>Feed water specifications</b>				
Pressure	bar	0,1-6	0,1-6	-
Conductivity	µS/cm	<20	<20	<20
Colloid Index	SDI	<3	<3	<3
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
<b>Connections</b>				
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
<b>Power requirements</b>				
Power consumption	W	270	270	270
Power supply	v/Hz	100-240V / 50-60Hz	100-240V / 50-60Hz	100-240V / 50-60Hz
<b>Dimensions</b>				
Height	mm	535	535	535
Width	mm	400	400	400
Depth	mm	410	410	520
Shipping weight	kg			
<b>Catalog number</b>		<b>W3T324339</b>	<b>W3T324340</b>	<b>W3T324491</b>

\*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

<b>Item number</b>	<b>Description</b>	<b>Change frequency</b>
W3T197618	Pretreatment 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)	-