



LABOSTAR® PRO (TYPE I)

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 feed 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 / DI 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 DI 4	LaboStar PRO UV 2	LaboStar PRO UV 4
Delivery flow rate	l/min	1.5*	1.5*	1.5*	1.5*
Conductivity	µS/cm	0.055	0.055	0.055	0.055
Resistivity	MΩ-cm	18.2	18.2	18.2	18.2
TOC*1	ppb	5 - 10	5-10	1 - 5	1 - 5
Bacteria	cfu/ml	< 0.1	< 0.1	< 0.1	< 0.1
Endotoxins	EU/ml	< 0.001**	< 0.001**	< 0.001**	< 0.001**
Particles > 0.2 µm	per ml	< 1	< 1	< 1	< 1
Feed water specifications					
Feed water pressure	bar	0.1 - 6	-	0.1 - 6	-
Initial conductivity	µS/cm	< 20	< 20	< 20	< 20
Silt density index	SDI	< 12***	< 12***	< 12***	< 12***
TOC	ppb	< 50	< 50	< 50	< 50
Free Chlorine	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
Total iron	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
CO ₂	mg/l	< 15	< 15	< 15	< 15
Water temperature	°C	5 - 35	5 - 35	5 - 35	5 - 35
Ambient temperature	°C	5 - 35	5 - 35	5 - 35	5 - 35
Power requirements					
Power consumption	W	270	270	270	270
Power supply	V/Hz	100 - 240 V / 50 - 60 Hz	100 - 240 V / 50 - 60 Hz	100 - 240 V / 50 - 60 Hz	100 - 240 V / 50 - 60 Hz
Dimensions (HxWxD)	mm	535x400x410	535x400x520	535x400x410	535x400x520
Shipping weight	kg	21	24	23	24
Item code		W3T324339	W3T409684	W3T324340	W3T324491

* depends on primary pressure, min. 1.0 LPM > 0.1 bar inlet pressure

** Incl. charged sterile filter (the water is free of any detectable RNase or DNase)

*** with a pre-filter

*1 TOC Monitoring with UV Model

If the feedwater conductivity is >20 µS/cm, catalogue # W3T197620 is highly recommended.

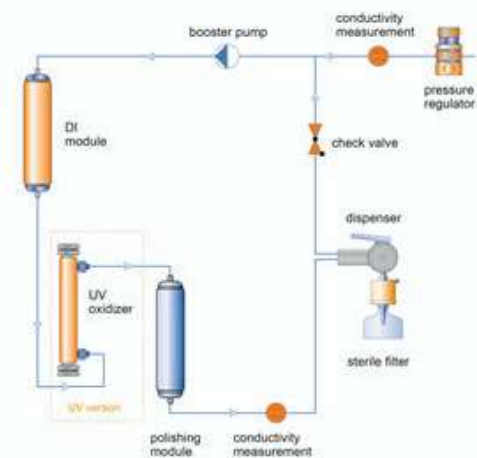
APPLICATION

- GC
- IC
- QC Food Industry
- Pyrogen Sensitive Applications
- Cell & Tissue Culture
- ICP / ICP-MS
- Micro & Molecular Biology
- PCR
- HPLC
- TOC
- LC-MS

RNase and DNase FREE WATER WITH THE USE OF STERILE FILTER
RNase < 0.05 pg/ml
DNase < 10 pg/µl

CONSUMABLES & ACCESSORIES

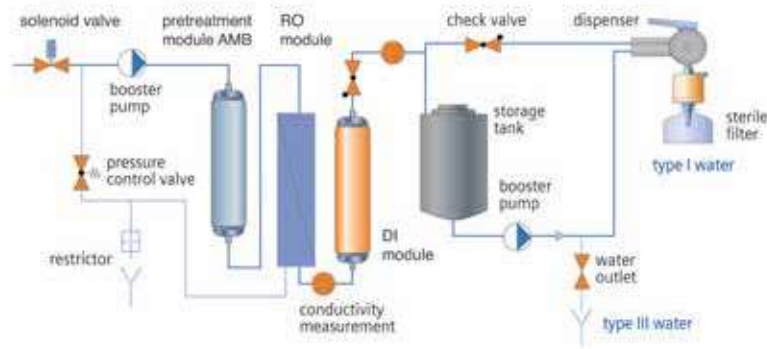
Item Number	Description	Change Frequency
W3T197618	Pretreatment module VMD (systems without UV)	6 - 12 months
W3T197621	Pretreatment module DTO (systems with UV)	6 - 12 months
W2T558521	UV replacement bulb	12 months
W3T197694	Polishing Module MFIID	6 - 12 months
W3T199853	Polishing Module ILT (Boron Removal)	6 - 12 months
W3T199279	Sterile filter 0.2 µm with endotoxin retention (pack of 3)(Autoclavable)	6 months
W3T199209	Sterile filter 0.2 µm without endotoxin retention (pack of 3) (Autoclavable)	6 months
W3T199768	Disinfection kit (pack of 3)	-



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Type 2(Pure) water



SPECIFICATIONS

System Performance		10 RO DI
Delivery flow rate	l/h	10
Salt retention	%	96
Bacteria retention	%	99
Particle retention	%	99
Permeate conductivity	$\mu\text{S/cm}$	< 0.1
Bacteria*	cfu/ml	< 1
Particles > 0.2 μm *	per ml	< 1
Max. delivery flow rate	l/min	1.2
Delivery flow rate @ 0.5 bar	l/h	70
Delivery flow rate @ 1.0 bar	l/h	65

Feed Water Specifications

Pressure	bar	0,1 - 5
Conductivity	$\mu\text{S/cm}$	< 2000**
Silt density index	SDI	< 12**
Free Chlorine	mg/l	< 0,5**
Total iron	mg/l	< 0.1
CO ₂	mg/l	< 15**
Temperature	°C	5 - 35
Shipping weight	kg	24
Power supply	V/Hz	100-240/50/60
Dimension (H/W/D)	mm	535/290/400

* = only in combination with a 0.2 μm sterile filter

** = with a pre-filter

CONSUMABLES & ACCESSORIES

Item Number	Description	Change Frequency*
W3T197613	Replacement pre-treatment module AMB	3 - 6 months
W3T197620	Replacement RO module 10 l/h	2 - 3 years
W3T197618	Replacement DI cartridge VMD	3 - 6 months
W3T199279	Sterile filter 0.2 μm with endotoxin retention (pack of 3 filters)	6 months
W3T199209	Sterile filter 0.2 μm (pack of 3 filters)	6 months
W3T199880	Vent filter for built-in 7 l storage tank (pack of 3 filters)	12 months
W3T197552	CO ₂ trap CT1 with vent filter VT1 kit for 30 and 60 l tank	12 months
W3T324494	30 l Extension storage tank	-
W3T324495	60 l Extension storage tank	-
W3T199991	Wall bracket ET30 for 30 l tank	-
W3T197563	Wall bracket ET60 for 60 l tank	-
W3T314413	Degassing unit (max. 150 l/h)	-

* Change intervals possibly shorter, depending on feed water and consumption.



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