



LABOSTAR® PRO ULTRA PURE WATER SYSTEM

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 Benefits

- 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 Benefits

- 7 liter built-in tank
- Suitable for mobile use at different locations
- Ultrapure water is ready for use within minutes after filling the tank
- Easy plug & play installation (Scope of supply includes consumables)
- Made in Germany

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 | ppb | 5 - 10 | 5 - 10 | 1 - 5 | 1 - 5 |
| Bacteria | cfu/ml | < 1** | < 1** | < 1** | < 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

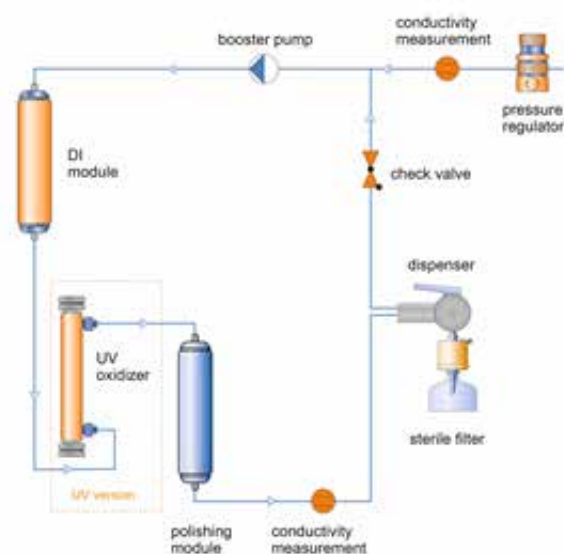
** incl. charged sterile filter (the water was free of any detectable RNase or DNase)

*** with a pre-filter

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 |
| W3T199768 | Disinfection kit (pack of 3) | - |

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



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