

LaboStar® 10 RO DI Reverse Osmosis System

HIGH WATER QUALITY – LOW COSTS

The LaboStar® RO DI series produce high quality water with very low energy consumption. The use of “low energy” membranes enable a very efficient and economical operation. Each LaboStar RO DI systems are equipped with a built-in 7 l storage tank. Pure water is collected in the tank and is recirculated by an integrated pump. LaboStar RO DI is equipped with an final DI cartridge. This cartridge polishes the RO water to Type II quality $< 0.1 \mu\text{S}/\text{cm}$.

The unit offers two extraction ports: water can be extracted under pressure from the Point-of-use dispenser or from the outlet on the back of the unit. Optionally, a charged $0.2 \mu\text{m}$ sterile filter at the dispenser can be used to remove bacteria and endotoxins*. An uncharged $0.2 \mu\text{m}$ sterile filter is also available. The 7 l storage tank capacity can be increased by an additional 30 or 60 l tank. The LaboStar RO DI system is delivered with the first set of all modules and filters required for immediate operation.

*: Can only be achieved with a freshly inserted sterile filter with endotoxin retention capacity (charged), and only for a limited amount of water. A system with an additional UF filter is recommended for larger water requirements. The service life is strongly dependent on the ambient conditions and must be determined on site.

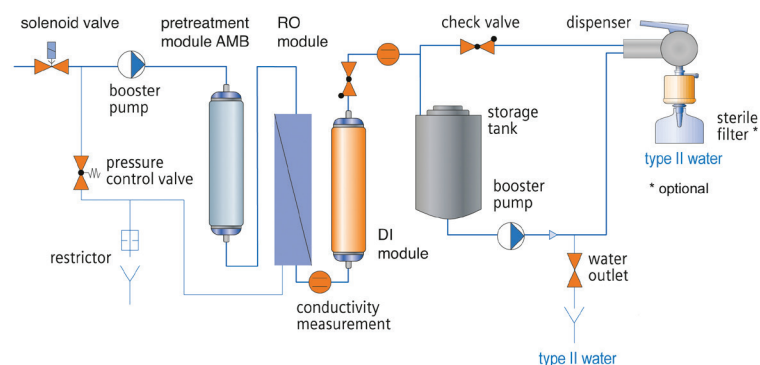


BENEFITS

- 7 liter built-in storage tank
- Pure water circulation right into the dispenser head
- Easy to dispense water using the practical POU dispenser
- $0.2 \mu\text{m}$ sterile filter with or without endotoxins retention as option available
- Whisper operation mode
- Rapid and simple disinfection
- Conductivity monitoring of RO and DI water
- Easy module exchange via quick-release connections
- Very small and compact design

TYPICAL APPLICATIONS

- IC
- Pathology
- Cytology + histology work
- Buffer preparation
- Photometry and spectrophotometry
- Media preparation
- Electrophoreses
- Feed for laboratory ultra-pure water systems
- Final Rinse of laboratory washing machines



SPECIFICATIONS

System performance	LaboStar 10 RO DI
Delivery flow rate (l/h)	10
Salt retention (%)	98 - 99
Bacteria retention (%)	99
Particle retention (%)	99
Permeate conductivity (µS/cm)	< 0,1
Bacteria (cfu/ml)	< 0,1* ¹
Particles > 0,2 µm (per ml)	< 1* ²
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 (µS/cm)	< 2000
Silt density index (SDI)	< 3
Free chlorine (mg/l)	< 0,1
Total iron (mg/l)	< 0,1
CO ₂ (mg/l)	< 20
Temperature (°C)	5 - 30
Shipping weight (kg)	24
Power supply	100-240 V/ 50 - 60 Hz
Dimensions (H × W × D) (mm)	535 × 290 × 400
Item Number	W3T324493

*¹ : With use of sterile filter W3T199279 or W3T199209 (see accessories)
with Bubble point test: pressure > 3.45 bar (with water) resp. 1.10 bar
(with 50% IPA)

*²: Only when a 0.2 µm sterile filter is used.

CONSUMABLES

Item No.	Description	Change frequency*
W3T197613	Replacement pre-treatment module AMB	3 - 6 months
W3T197620	RO module 10 l/h	2 - 3 years
W3T197618	Pre-treatment module VMD	3 - 6 months
W3T199279	Sterile filter 0.2 µm with endotoxin retention (pack of 3)	6 months
W3T199209	Sterile filter 0.2 µm (pack of 3)	6 months
W3T199880	Vent filter (pack of 3)	12 months
W3T197552	CO ₂ trap CT1 with vent filter VT1 kit for 30 and 60 l tank	12 months

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

ACCESSORIES

Item No.	Description
W3T403968	Flushing filter/Backflow preventer combi ¾"
W2T828181	Water guard R ¾" i/a, Ms, KV 1.2 m ³ /h, 230 V
W3T324494	30 l Storage tank
W3T324495	60 l Storage tank
W3T199991	Wall bracket ET 30 for 30 l tank
W3T197563	Wall bracket ET 60 for 60 l tank
W3T199556	Wall bracket kit for LaboStar
W3T314413	Degassing unit up to max. 150 l/h
W3T428768	Communication interface module

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