

Fields of use

Molecular biology
Microbiology
Electronics
Optics
Semiconductor
Biochemistry
Pharmaceuticals
Chemistry
Analytical methods

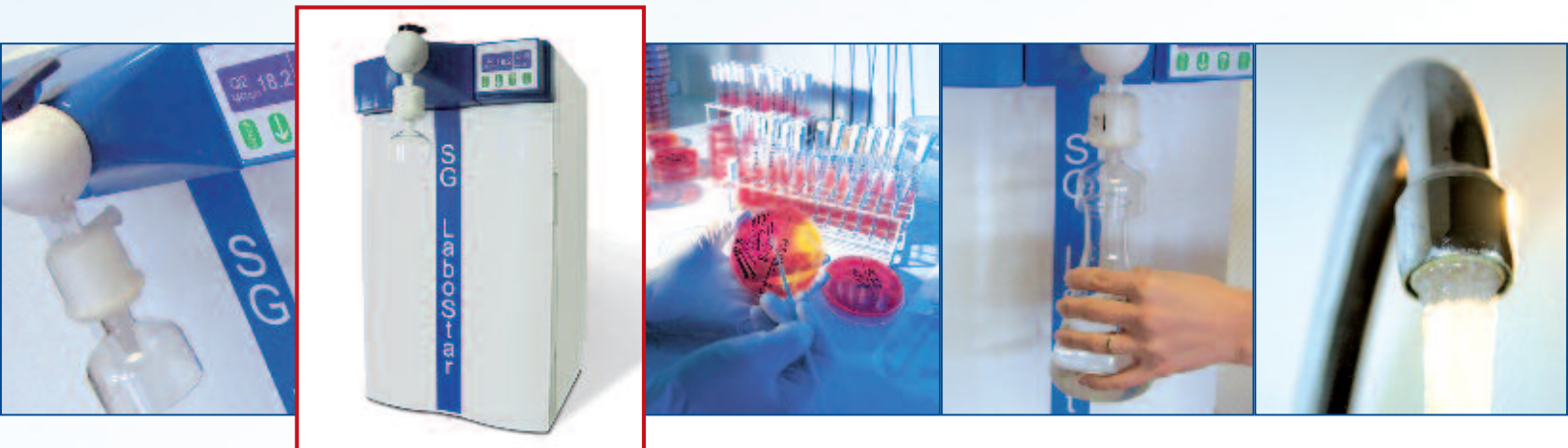
Ultrapure water

Pure water

new · new · new · new · new · new

Series LaboStar 3/6 TWF-DI and -UV

Design meets perfection



Manufactured by SG Water, Germany
for Whitewater Ireland

WHITewater

quality in purity

LaboStar 3/6 TWF-DI

General analysis, standard buffer, AAS, GC, IC, ICP, cell and tissue culture, pyrogen sensitive applications, type III water

LaboStar 3/6 TWF-UV

Micro- und molecularbiology, PCR, HPLC, TOC analysis, type III water

Ultrapure Water System LaboStar 3/6 TWF-DI and -UV

From tap to ultrapure water – only one innovative step

The LaboStar 3/6-TWF-DI and UV produces ultrapure water straight from your drinking water supply. This equipment incorporates a pre-filtration unit and a reverse osmosis facility in one single compact module. The Type III quality of the reverse osmosis water appears in the display. The pure water collects in an in-

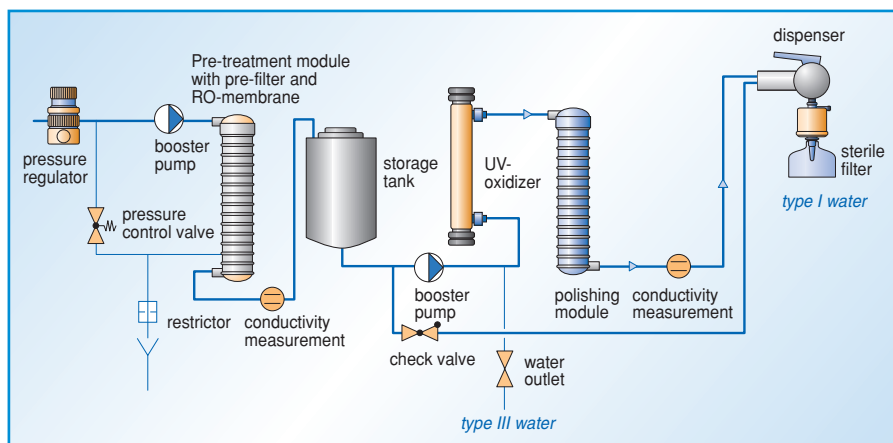
tegrated tank and is circulated through the polishing module by a circulation pump. The user can extract either Type III water from the tank or Type I water from the dispenser with a quality of 0.055 $\mu\text{S}/\text{cm}$, equivalent to 18.2 $\text{M}\Omega\text{-cm}$, and TOC of between 1 and 10 ppb, depending on the model. The functionally designed LaboStar equipment can

cost-effectively produce even small amounts of analytical-grade water. The water quality exceeds all relevant standards including ASTM Type I, NCCLS Type I and ISO 3696 Type I. A conductivity sensor constantly displays the purity of the product water in the recirculation loop. A charged 0.2 μm sterile filter at the dispenser removes endotoxins, eliminating the need for an ultrafilter.

The advantages in brief:

- 7 liter tank volume
 - Connection to municipal drinking water supply
 - Easy to dispense water using the practical dispenser
 - Protective jacket at the end of the sterile filter
 - Ultrapure water circulation right into the dispenser head
 - Whisper mode
 - Conductivity monitoring of pre-treatment module and ultrapure water
 - Rapid and simple disinfection
 - Simple module exchange via quick-release connections
 - Extraction of Type III pure water also possible
- LaboStar systems are delivered with the first set of modules and filters.

Flowsheet LaboStar 6 TWF-UV



Type LaboStar 3/6 TWF...		DI	UV
Ultrapure water specifications			
Output	<i>l/min</i>	1	1
Permeate rate at 15°C	<i>l/h</i>	3/6	3/6
Conductivity at 25° C	$\mu\text{S}/\text{cm}$	0.055	0.055
Resistivity at 25° C	$\text{M}\Omega\text{-cm}$	18.2	18.2
TOC	<i>ppb</i>	5 – 10	1 – 5
Bacteria	<i>cfu/ml</i>	< 1	< 1
Endotoxins with use of SG filter	<i>EU/ml</i>	< 0.001	< 0.001
Particles > 0.2 μm	<i>per ml</i>	< 1	< 1
Conductivity of input water is reduced by 98 %			
Feed water specification			
Feed water pressure	<i>bar</i>	3 – 5	3 – 5
Feed conductivity	$\mu\text{S}/\text{cm}$	< 1400	< 1400
Temperature	$^{\circ}\text{C}$	5 – 35	5 – 35
Power supply	<i>V/Hz</i>	100-240 / 50-60	
Dimensions: H/W/D	<i>mm</i>	535/290/400	535/290/400
Shipping weight	<i>kg</i>	24	25
Catalogue Number	3 l/h	2221	2222
	6 l/h	2231	2232

Consumables

Item	Cat. No.
Polishing module	2170
Pre-treatm.module	2111
Sterile filter, pack of 3	2097
UV replacement bulb	2068

Accessories: wall mount.