

Fields of use

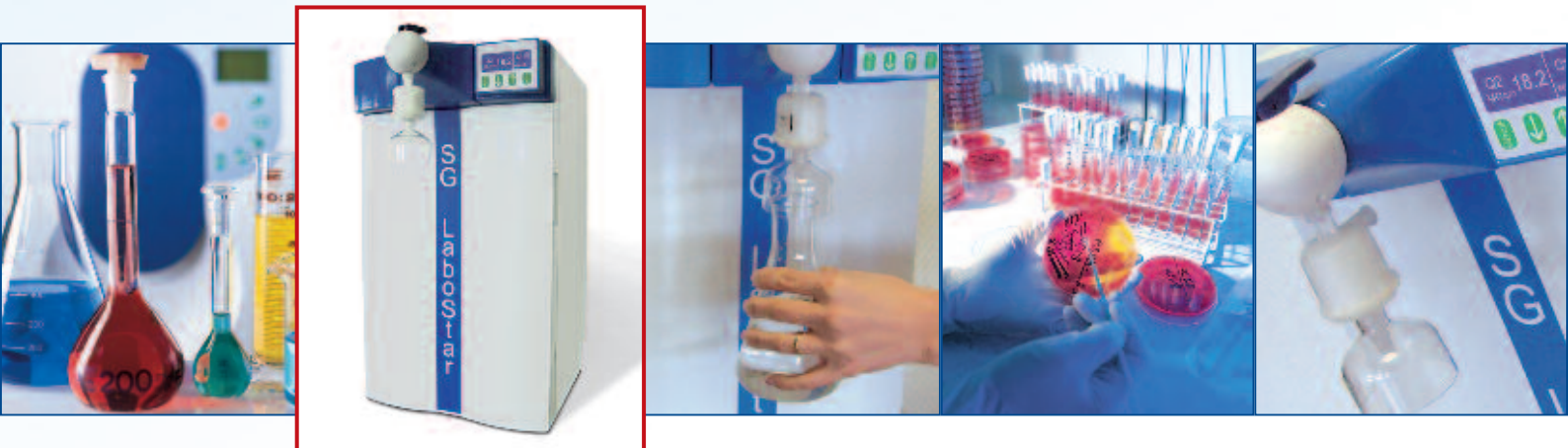
Molecular biology
Microbiology
Electronics
Optics
Semiconductor
Biochemistry
Pharmaceuticals
Chemistry
Analytical methods

Ultrapure water

new · new · new · new · new · new

Series LaboStar 1-DI and -UV

Perfect in design and function



Manufactured by SG Water, Germany
for Whitewater Ireland

WHITewater

quality in purity

LaboStar 1-DI

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

LaboStar 1-UV

Micro- und molecularbiology, PCR, HPLC, TOC analysis

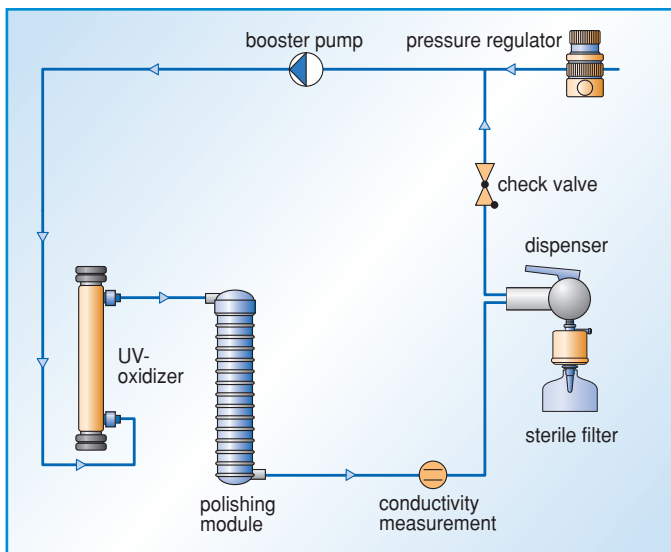
Ultrapure Water System LaboStar 1-DI and -UV

Highest water quality – economically produced

The extremely compact ultrapure water system is a cost-effective means of producing analytical grade water, and can be used on a laboratory bench or mounted to the wall. The water produced by the 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. Water produced by the UV version has a TOC value of 1–5 ppb. This water quality exceeds all relevant standards including ASTM Type I,

Flowsheet LaboStar 1-UV



NCCLS Type I and ISO 3696 Type I. The LaboStar 1-DI is fed with either deionized water, distilled water or permeate from a reverse osmosis unit.

The selection of treatment materials in LaboStar 1-DI's polisher module 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 charged sterile filter at the dispenser removes 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 ultrafilter.

The advantages in brief:

- 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 operation mode
- Conductivity monitoring of input water and ultrapure water
- Rapid and simple disinfection
- Pressure reducer included
- Simple module exchange via quick-release connections

The LaboStar unit is delivered with the first set of modules and filters and is ready for use.

Consumables

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

Type LaboStar 1...		DI	UV
Ultrapure water specifications			
Output	<i>l/min</i>	1	1
Conductivity at 25° C	<i>$\mu\text{S}/\text{cm}$</i>	0.055	0.055
Resistivity at 25° C	<i>$\text{M}\Omega\text{-cm}$</i>	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
Feed water specification			
Feed water pressure	<i>bar</i>	0 – 6	0 – 6
Feed conductivity	<i>$\mu\text{S}/\text{cm}$</i>	< 20	< 20
TOC	<i>ppb</i>	< 50	< 50
Silica	<i>ppm</i>	2	2
Temperature	<i>°C</i>	5 – 35	5 – 35
Power supply	<i>V/Hz</i>	100-240 / 50-60	
Dimensions: H/W/D	<i>mm</i>	535/290/320	535/290/320
Shipping weight	<i>kg</i>	20	22
Catalogue Number		2201	2202