

# Septron<sup>®</sup> Line 10 – 20



Ultrapure Water Systems

For You and Planet Blue.



## Compact Quality in the Laboratory

**Whether it is during the production of tablets, for the manufacture of ointments or creams, juices or drops, or for rinsing packaging – water is the primary support medium in the pharmaceutical industry.**

Above all, the use of a consistent quality of purified water in laboratories is of critical importance for reproducing laboratory applications successfully. For this reason regulatory authorities have defined different grades of water purity according to type of use.

The water manufactured with the SEPTRON® Line exceeds water quality type 1 (laboratory water), as defined by ASTM, CAP, NCCLS and ISO 3696/BS 3997, and complies with both European standards and the requirements for Purified Water as stipulated by the American Pharmacopoeias.



## Purified Water and Highly Purified Water in the Smallest Area

**SEPTRON® Technology stands for water of the highest quality and lowest conductivity as well as excellent microbiological purity. The low-dead-space Smart Block linking technology and the 'full fit' concept contribute to ensuring perfect water quality. All preparation stages, from filtration to electrical demineralisation, are combined in a compact unit.**

### The advantages:

- Up to 300 l/h Purified Water in just 0.5 m<sup>2</sup>
- A ready-for-connection range product
- PLC with coloured 5.7" touch panel for clearly arranged process visualization
- Integrated cleaning programme
- Economical Purified Water production from 150 to 300 l/h
- Operates at 230V/50Hz
- Guaranteed Purified Water quality compliant with Ph. Eur. & USP (VAL version)
- Guaranteed Highly Purified Water quality compliant with Ph. Eur. (HPW version)
- SEPTRON® Line VAL pre-validated with complete documentation for official confirmation
- Short delivery time and start-up
- User-friendly and low maintenance

### Best water quality

The SEPTRON® Line VAL and HPW more than fulfil the requirements for pure water of Purified Water as required by Ph. Eur. and USP respectively Highly Purified Water as required by Ph. Eur.

### Compact and practical

Thanks to its small footprint SEPTRON® Line will fit in the smallest space in any laboratory. The clearly arranged touch panel allows an easy handling and shows reliable the current state.

### Clear menu guide

All operating parameters and the system status are visualised on the touch-screen display in real time. With its clear menu guide, control of the system is intuitive, secure and ergonomic.

### Easy operation

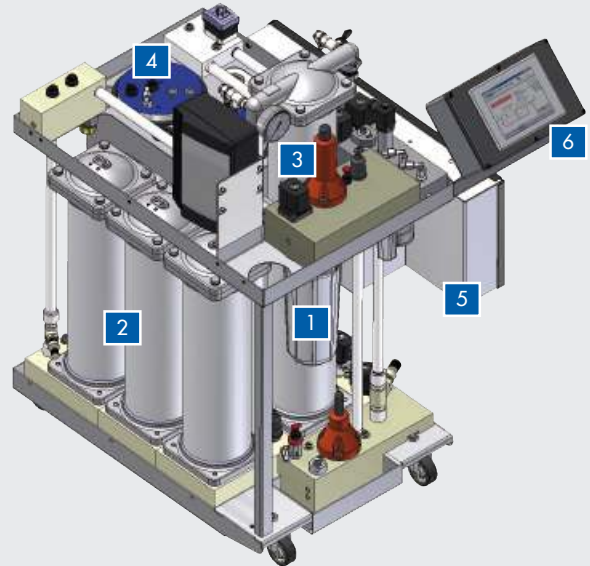
SEPTRON® Line is equipped with a modern PLC and a coloured touchscreen display for visualization, operation and control of the individual functions.

### Controlled access

SEPTRON® Line is made secure by password-protected access levels. This guarantees that only authorised personnel can make changes to the production processes.

SEPTRON® Line VAL fulfils the quality requirements of the pharmaceutical industry and complies with GMP as regards to the mandatory FDA and PIC guidelines. Thanks to the pre-qualification FAT (Factory Acceptance Test) many aspects of installation and operational qualification can be tested in advance, saving time and money during the qualification itself.

SEPTRON® Line 10/20 VAL and HPW



- 1 Fine filter
- 2 Reverse osmosis
- 3 High-pressure pump
- 4 SEPTRON® Module
- 5 Operation
- 6 Control panel

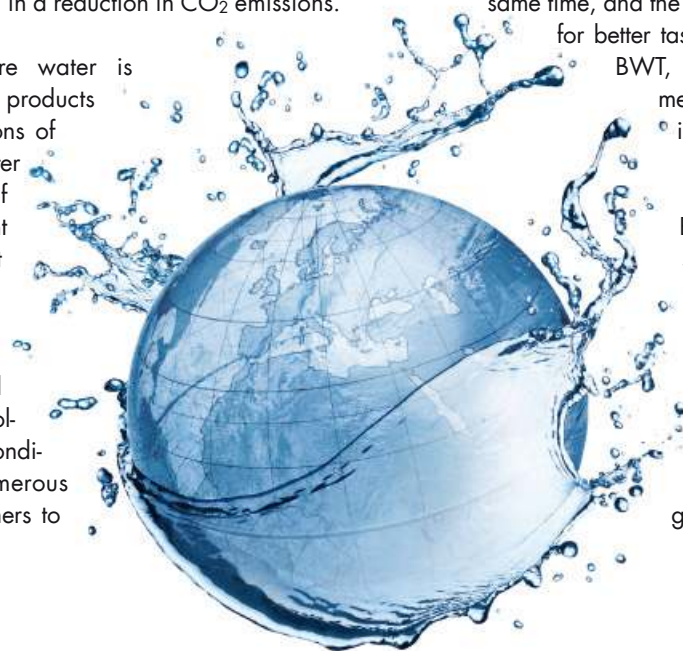
SEPTRON® Line VAL and HPW	Type	10	20
Volume flow Purified Water	l/h	150	300
Effective conductivity at 25°C	µS/cm	<0.2	<0.2
TOC	ppb	<25	<25
SiO <sub>2</sub>	ppm	<0.1	<0.1
Total bacterial count	CFU/ml	<10; (HPW: <10 CFU/100ml)	<10; (HPW: <10 CFU/100ml)
Endotoxines (HPW version only)	EU/ml	<0.25	<0.25
Electrical connection	V/Hz	230/50	230/50
Electrical consumption	kW	1.2	1.45
Width	mm	640	640
Height	mm	930	930
Depth	mm	715	715

\*Softened feed water at 15 °C/4 bar

# BWT – The Company

The Best Water Technology Group is Europe's leading water technology company with 2,800 employees and a vast network of partner companies, service staff, installers, planners, architects and hygiene experts. Our R&D teams apply state-of-the-art methods and use the latest processes and materials to create products that are both economical and green. One of the key objectives is to reduce the resource and energy consumption levels of our products, resulting in a reduction in CO<sub>2</sub> emissions.

Practically everywhere where water is involved, BWT's pioneering products have proved their worth millions of times over; where domestic water enters a building ('point of entry') and at its tapping point ('point of use'), for the treatment of seawater, drinking water, mineral water, ultrapure water for pharmaceuticals, water for swimming pools, heating and process water, boiler water, cooling water and water for air-conditioning systems. Our numerous innovations enable our customers to



enjoy the highest levels of safety, hygiene and health in their daily use of water – the precious elixir of life. Among these are: SEPTRON®, the world's first Electrodeionisation module (EDI) with spiral winding, the MDA (manganese oxide activation) method for effective removal of manganese, AQA total bipolar technology for chemical-free limescale protection, SANISAL – the world's first regeneration salt for softening systems that also disinfects at the same time, and the revolutionary new Mg<sup>2+</sup> technology for better tasting filtered water, coffee and tea.

BWT, with its unique, high-performance membranes for fuel cells and batteries, is setting the 21<sup>st</sup> century standard for the supply of clean energy.

BWT – For You and Planet Blue signifies our mission to take ecological, economic and social responsibility, and to provide our customers with the best products, systems, technologies and services in all areas of water treatment, while making a valuable contribution to the preservation of our blue planet's global resources.



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