



# SEPTRON® Line 25-60

Compact Unit for the Production of Ultrapure Water

## Your Ideal Partner for Demanding Ultrapure Water Applications

With SEPTRON® Line you choose the fastest and safest way for ultrapure water production. Fast, since it is ready for use and safe, since it has been successfully established in practice for years. It is a standard product of the third generation that contains a lot of know-how as well as experience and which represents the highest product and comfort requirements. Perfect in form and function. Compact and hygienic due to deadleg-free interconnection technology and completely with all treatment levels from filtration and electrical demineralisation to sterile filtration (HPW version).

### Unique EDI technology

Our SEPTRON® EDI modules with the specially developed spiral-wound design embody the highest water quality with the lowest conductivity as well as an excellent microbiological safety.

### Your advantages

- Ready-for-use standard product
- Short delivery time and set-up
- Compact, space-saving, quiet
- Economical production of Highly Purified Water up to 2,000 l/h
- User-friendly and low maintenance
- Integrated degasser
- High efficiency (WCF) of 70–75 %
- cGAMP compliant PLC
- Audit trail function with optional printer
- Standard disinfection and cleaning programme
- SEPTRON® Line VAL and HPW pre-validated with complete documentation for official verification processes (CE, GAMP, cGMP, FDA compatible)
- Highest hygiene due to full-fit concept, deadleg-free interconnection technology and unique BWT Pharma & Biotech SEPTRON® technology
- Guaranteed Purified Water quality, according to Ph. Eur. and USP (VAL model)

### Optimal water values

The PRO, VAL and HPW models of the SEPTRON® Line fully comply with the ultra pure water requirements. The SEPTRON® Line PRO is the ideal partner for general applications with ultrapure water. The SEPTRON® Line VAL guarantees the necessary safety for your Purified Water according to Ph. Eur. and USP. With SEPTRON® Line HPW, Highly Purified Water according to Ph. Eur. is produced.

### Highly user-friendly

SEPTRON® Line PRO, VAL and HPW are fully automated. All functions are controlled and monitored by an integrated PLC.

Operation parameters and statuses are clearly shown on the touch screen display. The precise display and the clearly arranged menu navigation guarantee an intuitive, safe and ergonomic operation.



**Safest operating data**

The new software guarantees the highest safety due to four password levels. An optionally integrated printer ensures the complete tracing of events and interventions.

**Guaranteed quality**

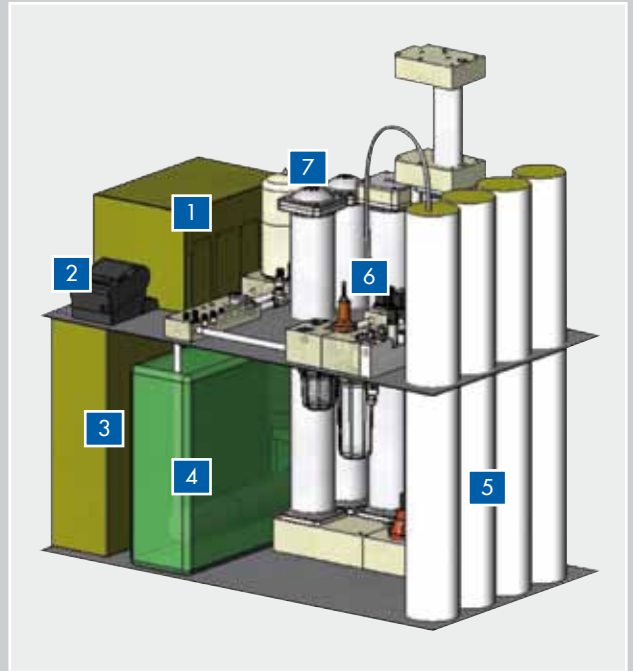
SEPTRON® Line VAL and HPW fulfil the quality requirements of the pharmaceutical industry. Taking into account the necessary FDA and PIC guidelines, they are GMP compatible. Due to the FAT pre-qualification, many elements of the installation and functional qualification can be tested, thereby saving time and money during qualification.

**Economical operation**

The models are serially equipped with a programme for the disinfection of reverse osmosis as well as SEPTRON® modules. The devices are characterised by a high performance at low water consumption. They offer a high operational safety at low maintenance and allow for a fast set-up.

With SEPTRON® Line BWT Pharma & Biotech is able to provide all companies with the optimal water for their operational processes and to guarantee a maximum of quality, pureness and safety.

**SEPTRON® Line – A perfect concept**



- 1 Power supply units
- 2 Printer (option)
- 3 PLC
- 4 Concentrate reservoir
- 5 SEPTRON® modules
- 6 Full-fit RO unit
- 7 Degasser

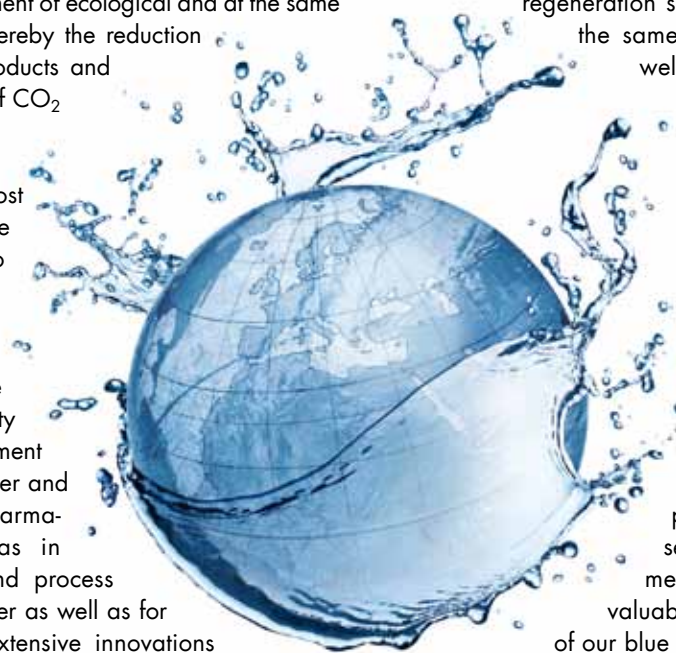
| SEPTRON® Line PRO, VAL and HPW  | Type         | SL 25    | SL 30    | SL 40    | SL 50     | SL 60     |
|---------------------------------|--------------|----------|----------|----------|-----------|-----------|
| Volume flow ultrapure water*    | l/h          | max. 150 | max. 450 | max. 900 | max. 1400 | max. 2000 |
| Degree of efficiency (WCF)      | %            | 70 – 75  | 70 – 75  | 70 – 75  | 70 – 75   | 70 – 75   |
| Guaranteed conductivity at 25°C | µS/cm        | < 0.2    | < 0.2    | < 0.2    | < 0.2     | < 0.2     |
| TOC                             | ppm          | < 0.5    | < 0.5    | < 0.5    | < 0.5     | < 0.5     |
| SiO <sub>2</sub>                | ppm          | < 0.1    | < 0.1    | < 0.1    | < 0.1     | < 0.1     |
| Total microbial count           | CFU/ml       | < 10     | < 10     | < 10     | < 10      | < 10      |
|                                 | **CFU/100 ml | < 10     | < 10     | < 10     | < 10      | < 10      |
| Endotoxin concentration**       | **EU/ml      | < 0.25   | < 0.25   | < 0.25   | < 0.25    | < 0.25    |
| Width                           | mm           | 1450     | 1450     | 1450     | 1450      | 1450      |
| Height                          | mm           | 1550     | 1550     | 1550     | 1550      | 1650      |
| Depth                           | mm           | 800      | 800      | 800      | 800       | 800       |

\* softened feed water, at 15°C/6 bar;  
 \*\* HPW model

# BWT – The Company

The Best Water Technology Group was formed in 1990 and is today Europe's leading water technology company. More than 2,800 employees in over 70 subsidiaries and associates together with thousands of service employees, plumbers, planners, architects and hygiene experts constitute the BWT water partner network. Employees in Research & Development work on new processes and materials using state-of-the-art methods to target the development of ecological and at the same time economical products. Thereby the reduction of energy consumption of products and the consequent minimisation of CO<sub>2</sub> emissions is a key issue.

When it comes to water, almost everywhere, whether at the entrance of the water pipe into a building – the Point of Entry - or at the tapping point – the Point of Use, the trend-setting products by BWT are in use and have proved their quality millions of times. For the treatment of drinking water, mineral water and ultrapure water for the pharmaceutical industry as well as in swimming pools, heating and process water, boiler and cooling water as well as for water for air-conditioning. Extensive innovations



guarantee our customers maximum security, hygiene and health in the daily use of water, the precious elixir of life. These innovations, among others, include SEPTRON®, the worldwide first electrode deionisation module (EDI) with spiral wrap, the MDA (manganese oxide activation) – method for effective manganese removal, the bipolar technology AQA total for chemical-free lime protection, SANISAL – the worldwide first regeneration salt for softening systems, which at the same time works as a disinfectant as well as the new, revolutionary Mg<sup>2+</sup>-technology for better taste of filtered water, coffee and tea. With unique high efficiency membranes for fuel cells and batteries, BWT is bringing about a cleaner and sustainable energy supply in the 21<sup>st</sup> century.

BWT – For You and Planet Blue is our mission to take ecological, economical and social responsibility, to provide our customers and partners with the best products, systems, technologies and services in all areas of water treatment and simultaneously contribute valuably to preserve the global resources of our blue planet.



For You and Planet Blue.

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**BWT GROUP**