

SEPTRON® Line 31 – 61



Compact Unit for the Production of Ultrapure Water

For You and Planet Blue.



Your Ideal Partner for Demanding Ultrapure Water Applications

Choosing SEPTRON® Line means the fastest and safest way for ultrapure water production. Fast, since it is ready for use, and safe, since it has been successfully established for years. It is a proven standard product that embodies a great deal of expertise and experience and meets the most demanding of product and usability requirements. Perfect in form and function. Compact and hygienic thanks to its dead-leg-free interconnection technology and offers the complete range of treatment levels from filtration and electrical demineralisation to sterile filtration (HPW version).

Unique EDI technology

BWT is the only European manufacturer of EDI modules. The unique, patented EDI spiral-wound module, SEPTRON®, has been specifically developed for both the pharmaceutical industry and the highest quality requirements.

Benefits

- Standard ready-to-use product
- Short delivery and set-up times
- Compact, space-saving, quiet
- Economical production of Highly Purified Water up to 2,400 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 confirmation processes (compliant with CE, GAMP, cGMP, FDA)
- Maximum hygiene due to full-fit design deadleg-free interconnection technology and unique BWT SEPTRON® technology
- Guaranteed Purified Water quality, compliant with Ph. Eur. and USP (VAL model)

Optimal water values

The VAL and HPW SEPTRON® Line models comply fully with ultrapure water requirements. SEPTRON® Line VAL guarantees that your Purified Water is hygienically safe in accordance with Ph. Eur. and USP. Highly Purified Water produced by SEPTRON® Line HPW complies with Ph. Eur.

Extremely user-friendly

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

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



Extremely secure operating data

The new software guarantees maximum security with four password levels. An optional integrated printer ensures full traceability of events and interventions.

Guaranteed quality

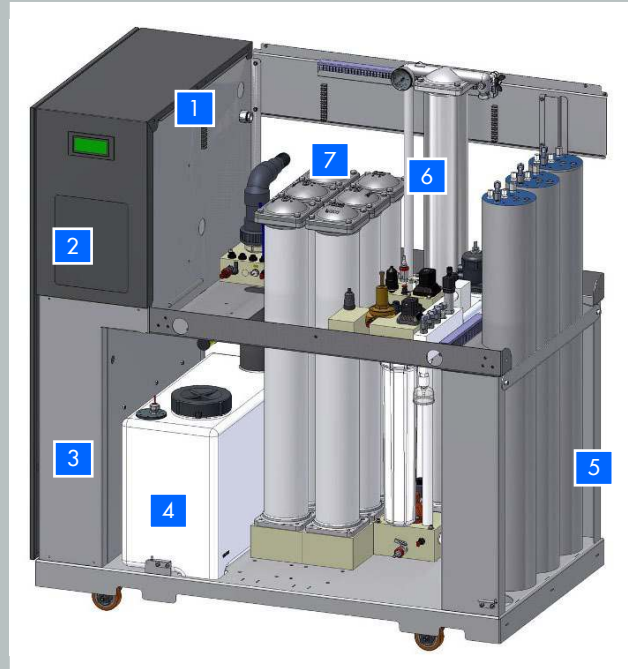
SEPTRON® Line VAL and HPW satisfy the quality requirements of the pharmaceutical industry. Taking account of the mandatory FDA and PIC guidelines they are GMP-compatible. Due to the FAT pre-qualification, many elements of the installation and operational qualifications can be tested, saving time and money during the qualification itself.

Economical operation

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

With its SEPTRON® Line BWT is able to provide all companies with perfect water for their operational processes and to guarantee maximum quality, purity 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 VAL and HPW	Type	SL 31	SL 41	SL 51	SL 61
Volume flow ultrapure water*	l/h	150 – 300	400 – 800	800 – 1,600	1,800 – 2,400
Water Conversion Factor (WCF)	%	70 – 75	70 – 75	70 – 75	70 – 75
Guaranteed conductivity at 25°C	µS/cm	< 0.2	< 0.2	< 0.2	< 0.2
Total Organic Carbon (TOC)	ppb	< 25	< 25	< 25	< 25
Silica SiO ₂	ppm	< 0.1	< 0.1	< 0.1	< 0.1
Total microbial count	CFU/ml	< 10	< 10	< 10	< 10
	**CFU/100 ml	< 10	< 10	< 10	< 10
Endotoxin concentration**	**EU/ml	< 0.25	< 0.25	< 0.25	< 0.25
Width	mm	1450	1450	1450	1450
Height	mm	1550	1550	1550	1650
Depth	mm	800	800	800	800

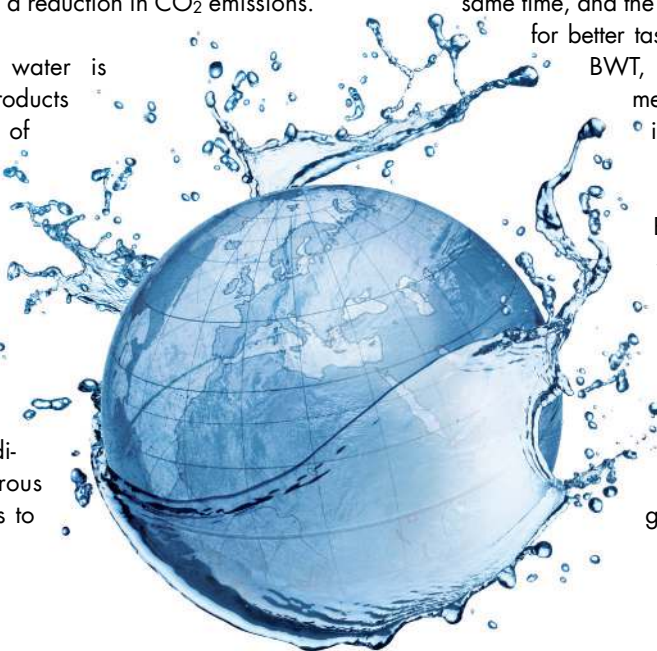
* softened feed water, at 15°C/4 bar;

** HPW model

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 CO₂ 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 Mg²⁺ technology

for better tasting filtered water, coffee and tea.

BWT, with its unique, high-performance membranes for fuel cells and batteries, is setting the 21st 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.



For You and Planet Blue.

Contact:

Europe:

Belgium: BWT Belgium n.v. / s.a.
Leuvensesteenweg 633, B-1930 Zaventem
P: +32/2/758 03-10, bwt@bwt.be

France: BWT France

103, rue Charles Michels, F-93206 Saint-Denis Cedex
P: +33/1/4922-4500, bwtpermo@bwt.fr

Germany: BWT Pharma & Biotech GmbH

Carl-Benz-Str. 4, D-74321 Bietigheim-Bissingen
P: +49/7142/3737-500, office@bwt-pharma.com

Ireland: BWT Pharma & Biotech Ltd.

Unit 2A Ashbourne Business Park, Co. Meath
P: +35/31/849 87-00, office.ireland@bwt-pharma.com

Netherlands: BWT Nederland B.V.

Energieweg 9, NL-2382 NA Zoeterwoude
P: +31/88/750 90-00, sales@bwt-nederland.nl

Poland: BWT Polska Sp. z o.o.

Ul. Polczynska 116, PL 01-304 Warszawa
P: +48/22/66-526 09, bwt@bwt.pl

Russia: BWT Russia

129301 Moscow, Ul. Kasatkina 3A
P: +7/495/686-6264, info@bwt.ru

Scandinavia: BWT Pharma & Biotech AB

Kantygatan 25, Box 9226
SE-20039 Malmö, Sweden
P: +46/40/690 88 03, nordic@bwt-pharma.com

Spain: Cilit SA

C/ Silici, 71-73. Pol. Ind. Del Este.
08940 Cornellà de Llobregat, Barcelona
P: +34/93/474-0494, cilit@cilit.com

Switzerland: BWT Aqua AG

Hauptstr. 192, CH-4147 Aesch/BL
P: +41/61/755 88-111, info@bwt-aqua.ch

UK: BWT UK Ltd

BWT House, The Gateway Centre, Coronation Road,
High Wycombe, Bucks HP12 3SU
P: +44/1494/838-100, enquiries@bwt-uk.co.uk

Asia:

BWT Water Technology (Shanghai) Co., Ltd.

No. 248 Xintuan Road, 12# Workshop,
Quigpu Industry Zone, Shanghai, 201707 Shanghai
P: +86/21/5986-7100, office@bwt-pharma.com

North America:

BWT Pharma & Biotech Inc.

45 Francis Street, Leominster, MA 01453
P: +1/978/534-4900, office.usa@bwt-pharma.com

Other Regions:

BWT Pharma & Biotech GmbH

Carl-Benz-Str. 4, D-74321 Bietigheim-Bissingen
P: +49/7142/3737-500, office@bwt-pharma.com



www.bwt-group.com

For You and Planet Blue.