



SEPTRON® Line SL 100 – 300

The New Dimension of Ultrapure Water Technology

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The New Dimension of Ultrapure Water Technology

With SEPTRON® Line you choose the quickest and safest way from tap water to ultrapure water. Quick, as it is ready-to-use and safe as it has been applied successfully for years in practice – a latest generation series equipment, produced with plenty of know-how and experience which stands for highest product and convenience demands. Unique in shape and perfect in function.

Your advantages

- Unique ultrapure water series product with a capacity of 3,000 to 9,000 l/h at an attractive price
- Innovative equipment concept with high-quality technology
- RO and EDI as separate equipment units allow maximum variability
- EDI unit can be combined with a variety of different RO units
- Modular series technology allows simple capacity expansion
- Modern GAMP5 compliant Siemens PLC control with 12" panel PC
- Maximum process and quality security through optional audit trail function and optional data recorder (21CFR11) integrated in the panel PC
- Individual customization of the standard control with the help of modular options
- Serially integrated CIP program
- Optimal ultrapure water quality for many applications – guaranteed Purified Water quality, according to Ph. Eur. & USP (VAL version)
- Maximum hygienic design through full-fit RO, innovative, low dead volume connection technology and unique SEPTRON® Technology
- High efficiency thanks to system efficiency factor > 70 %
- Integrated deaerator
- User-friendly and barrier-free access to the sampling points
- Ready-to-connect and low maintenance series product with minimum space requirement
- Short delivery times and fast start-up thanks to intelligent serial technology
- Pre-validated series product (version VAL), validation documentation of GMP conformity as proof for authorities



High quality technology

Compact and hygienic, through low dead volume connection technology and complete with all treatment stages, from reverse osmosis (RO) to electrodeionisation (EDI). Our SEPTRON® Technology with the special spiral-wound design stands for the highest water quality and lowest conductivity, as well as excellent microbiological purity.

Compact and space saving

RO and EDI have been conceptualised as separate units to maximise variability. This allows installation of SEPTRON® Line with lowest footprints. The modular concept provides a combination of existing RO's with the SEPTRON® Line EDI rack.

Easy to expand

The SEPTRON® Line RO rack and the SEPTRON® Line EDI rack can be expanded independently of each other without difficulty. Revalidation can be carried out quickly and safely due to the serial technology.

Optimum water quality

SEPTRON® Line PRO is the ideal partner for industrial ultrapure water applications with the highest quality demands such as solar panel manufacturers, high-pressure boiler-feed, surface technology etc.

State-of-the-art automation technology

The state of technology is redefined. All SEPTRON® Line 100 – 300 systems have a modern Siemens PLC control with 12"-touch-panel user interface. The well-engineered and tried series control protects itself against unauthorised access and can be operated intuitively. The ingenious series concept can be adapted to numerous customer wishes through a large packet of options.

Maximum operating convenience

SEPTRON® Line PRO and VAL produce fully automatically. All functions are controlled and monitored by

the modern PLC control. All operating parameters and states are ideally visualised on the graphic touch screen display. The clear display and neatly arranged menus allow intuitive, safe and ergonomic operation.

Securest operating data

The new software allows maximum security through four password levels. The complete traceability of events and interventions can be ensured through the optional audit trail module. Your operating data are recorded securely and compliant with 21 CFR Part 11 by the optional electronic data recorder.

Guaranteed quality

SEPTRON® Line VAL fulfils the quality demands of the pharmaceutical industry. It is cGMP-compliant under consideration of the necessary FDA & PIC guidelines. The documentation corresponds with GAMP5-requirements. Many points of the installation and function qualification can be checked through the pre-qualification FAT (Factory Acceptance Test), which saves time and money during the qualification.



SEPTRON® Line 100 – 300 – A Well Thought Out Concept

SEPTRON® Line VAL offers the demanded safety in the pharmaceutical environment for Purified Water according to Ph. Eur. and USP.

SEPTRON® Line 100 – 300		PRO/VAL Complete System 100	PRO/VAL Complete System 200	PRO/VAL Complete System 300	PRO/VAL EDI Rack 100	PRO/VAL EDI Rack 200	PRO/VAL EDI Rack 300
Flow*	l/h	3000-4000	6000-8000	9000-9500	3000-4000	6000-8000	9000-12000
Guaranteed conductivity (25°C)	µS/cm	< 0,2	< 0,2	< 0,2	< 0,2	< 0,2	< 0,2
TOC	ppb	< 0,5	< 0,5	< 0,5	< 0,5	< 0,5	< 0,5
SiO ₂	ppm	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1
Total germ count	CFU/ml	< 10	< 10	< 10	< 10	< 10	< 10
WCF	%	> 70 – 75	> 70 – 75	> 70 – 75	> 90	> 90	> 90
General							
Protective type (unit)	IP	54	54	54	54	54	54
Ambient temperature	°C	5–35	5–35	5–35	5–35	5–35	5–35
Electrical supply	V/Hz	3 x 400/50	3 x 400/50	3 x 400/50	3 x 400/50	3 x 400/50	3 x 400/50
Electrical connected power	kW	8,3 ... 10,3	10 ... 12	12 ... 14	2,5	4,5	6,5
Dimensions							
SEPTRON® Line 100-300 complete system consisting of RO Rack, EDI Rack and Control Panel:					SEPTRON® Line 100-300 EDI Rack incl. Control Panel:		
Min. footprint	m ²	3.6	3.6	3.6	2.6	2.6	2.6
RO Rack							
Length/Depth/Height	cm	120/80/148	120/80/263	120/80/263	–	–	–
Min. footprint	m ²	1.0	1.0	1.0	–	–	–
EDI Rack							
Length/Depth/Height	cm	240/80/215	240/85/215	240/85/215	240/85/215	240/85/215	240/85/215
Min. footprint	m ²	2.1	2.1	2.1	2.1	2.1	2.1
Control Unit (PLC)							
Height/Length/Depth	cm	205/80/50	205/80/50	205/80/50	205/80/50	205/80/50	205/80/50
Min. footprint	m ²	0.5	0.5	0.5	0.5	0.5	0.5

* Technical data with drinking water (softened) at 15 °C and 4 bar

Contact:

EUROPE:

BWT Pharma & Biotech GmbH
 Steinbeisstrasse 41 – 43, D-71665 Vaihingen
 Phone: +49/7042/910-0
 Email: office@christaqua.com

ASIA:

BWT Water Technology (Shanghai) Co., Ltd.
 No. 248 Xintuan Road, 12# Workshop,
 Qingpu Industry Zone, Shanghai,
 201707 Shanghai, P. R. China
 Phone: +86/21/5986-7100
 Email: office@christaqua.com