Electropure EDI
Simple EDI

LENNTECH
Water Treatment Solutions

Electropure™ EDI XL-SR Modules

NEW!

XL-SR Pharmaceutical EDI Modules

ELECTROPURE™ XL-SR modules are pharmaceutical EDI modules for producing high-resistivity USP Purified Water. They are configured to easily retrofit existing systems with added Electropure™ technology benefits, so the old troublesome Dow Omexell® and GE E-Cell® CONCENTRATE RECIRCULATION IS ELIMINATED.

ELECTROPURE™ XL-SR modules have the compact Electropure profile and have Electropure™ EDI technology inside. This includes Electropure's patented Excellion™ membranes, our unique non-scaling electrode system, and our efficient thin-cell technology.

And with Electropure™ EDI thin-concentrate technology, there is no need for the troublesome Omexell® and E-Cell® recirculation system, so it can be eliminated from the system. With the mass-transfer built into Electropure™ EDI thin-concentrate technology, you don't need either salt injection or feed-and-bleed systems. You also don't need the IONPURE® "all-filled" design.

	XL-100-SR	XL-200-SR	XL-300-SR	XL-400-SR	XL-500-SR
Design Flow	100 l/h (0.5 gpm)	200 l/h (1 gpm)	500 l/h (2.5 gpm)	1.0 m3/h (5 gpm)	1.7 m3/h (7.5 gpm)
Module Flow Range	80-150 l/h (0.3-0.7 gpm)	100-300 l/h (0.5-1.5 gpm)	300-1000 l/h (1.5-4 gpm)	0.6-1.5 m3/h (2.5-7 gpm)	1.3-2.5 m3/h (6-11 gpm)
Recovery*	Up to 90%	Up to 95%	Up to 97%	Up to 99%	Up to 99%
Recommended Voltage	48 VDC	100 VDC	150 VDC	200 VDC	300 VDC
Normal Pressure Drop**	2-3 bar (30-45 psi)	2-3 bar (30-45 psi)	2-3 bar (30-45 psi)	2-3 bar (30-45 psi)	2-3 bar (30-45 psi)
Maximum Pressure	5 bar (75 psi)	5 bar (75 psi)	5 bar (75 psi)	5 bar (75 psi)	5 bar (75 psi)

* with electrolyte to drain, and concentrate recovery
** 25C, at design flow

EDI Module Parameters	Recommended for Optimum Performance	Maximum
Feedwater Conductivity Equivalent Including CO_2 (FCE, see calculation*)	<9 µS/cm	<33 µS/cm
pH	7.0 to 7.5	5 to 9.5
Total Chlorine (as Cl_2) and Ozone (O_3)	ND	ND
Iron (Fe)	ND	<.01 ppm
Manganese (Mn)	ND	<.01 ppm
Sulfide (S-)	ND	<.01 ppm
Total Hardness (as $CaCO_3$)	<0.5 ppm	<1 ppm
Total Silica (as SiO_2)	<0.2 ppm	<0.5 ppm
Total Organics (TOC as C)	ND	<0.5 ppm
Temperature	15 to 30C (60-85F)	5 to 35C (40-95F)
Concentrate Flow Direction	Upward	Upward
Feed Flow Direction	Upward	Upward
Dimensions (Width x Height x Depth)	22x56xD cm	(8.5x22xD in)

Depth:	**XL-100-SR**	**XL-200-SR**	**XL-300-SR**	**XL-400-SR**	**XL-500-SR**
	17 cm (6.5 in)	19 cm (7.5 in)	26 cm (10 in)	29 cm (11.5 in)	37 cm (14.5 in)

Electropure™ EDI Technology

- No concentrate recirculation or brine injection
- Thin-Cell efficient technology
- Thin-Concentrate non-scaling technology
- Unique non-scaling electrode system
- Patented Excellion™ membranes

Benefits of Using EDI

- Continuous Process-no upsets
- Operating cost is minimized
- No hazardous waste, no associated costs and risks
- No regeneration acid or caustic
- Flexible—easy to expand a modular EDI system
- Reliable—no recirculation system components to fail

Doing business with SnowPure

- Electropure™ EDI technology was born in 1977, before Ionpure
- SnowPure is privately held
- SnowPure is your partner, not a competitor
- High quality Electropure™ EDI training and OEM support

EDI Technology Training and OEM System Design Support

- SnowPure believes strongly in training—this helps ensure field success with Electropure™ EDI systems.
- SnowPure assists new OEM customers through their system design phase, both during the OEM training and during the design process. Support includes reviews of P&I diagrams and feedwater requirements.
- Combined with ongoing Technical Service, we help ensure success.

SnowPure
High Technology Water

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