

Fact Sheet

IONPURE® IP-VNX55-EX High flow CEDI modules

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VNX55-EX is designed to

- Guaranteed 18 MΩ-cm product resistivity, optimized for microelectronics and UPW systems
- Silica and Boron removal of ≥ 99%
- Sodium and Chloride removal ≥ 99.9%
- 95 – 97.5% recovery for loop usage and high water savings
- No need for acid/caustic, neutralization systems or tank exchanges
- Significantly lowers operating costs compared to conventional ion exchange
- Robust leak-free sealing with through-port gasket
- High flow module reduces system cost and simplifies skid design
- Connection fittings are included
- On-board junction box for DC power connections
- 50 mm butt weld natural polypropylene connection kits and drawings available

Description and use

The VNX55-EX high flow module is designed with proven Ionpure® continuous electrodeionization (CEDI) technology to produce high purity water. Performance has been optimized for the critical high quality demands of the microelectronics industry.

Typical Applications

- Micro electronics Industry

Quality Assurance

- CE marked.
- Each module is factory tested to meet strict industry standards.
- Manufactured in an ISO 9001 and ISO 14000 quality and environmental management system.

VNX55-EX Module Specifications

Operating weight	374,2	kg
Shipping weight	276,7	kg
Dimensions (w x d x h)	50,8 x 50,8 x 213 cm	

Typical Performance

Product Quality

Product Resistivity 2-pass RO	> 17,5	MΩ-cm *
DI water	> 18	MΩ-cm *
Sodium (Na ⁺) Removal	99,9	%
Chloride (Cl ⁻) Removal	99,9	%
Silica (SiO ₂) Removal	≥ 99	%
Boron (B) Removal	≥ 99	%

* Actual performance may be determined using IP-Pro projection software available from IonPure.

Operating Parameters

Recovery	95 – 97,5 %	
Flow rate: minimum	7,5	m ³ /hr
Flow rate: nominal	12,5	m ³ /hr
Flow rate: maximum	16,7	m ³ /hr
DC Voltage	0 – 600 VDC	
DC Amperage	0 – 13,2 Amp**	

**0-10 Amp typical for most applications.

Maximum Feedwater Specifications

Feed water conductivity equivalent, including CO ₂ and Silica	< 10	μS/cm
Feed water source	2 pass RO permeate	
Temperature min to max	20 to 45 °C	
Inlet pressure	2,1 – 7 bar	
Maximum Free chlorine (as Cl)	< 0,02	ppm
Iron (as Fe)	< 0,01	ppm
Manganese (as Mn)	< 0,01	ppm
Sulfide (S ⁻)	< 0,01	ppm
pH	4 – 11	
Total hardness (as CaCO ₃)	< 0,1	ppm
Dissolved organics (TOC as C)	< 0,5	ppm
Silica (SiO ₂)	< 0,5	ppm

DEIONX – PURE QUALITY