Fact Sheet

IONPURE® IP-VNX55-E

High flow CEDI modules

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VNX55-E is designed to

- Guaranteed 18 MΩ-cm product resistivity, optimized for microelectronics and UPW systems
- Silica and Boron removal of ≥ 95%
- Sodium and Chloride removal ≥ 99.8%
- 98,5 – 99% 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

Description and use

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

Typical Applications

- Power Industry
- Electronics Industry
- Semiconductor 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-E Module Specifications		
Flowrates min/nom/max	7,5/12,5/16,7	m3/h
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 1-Pass RO	> 16	MΩ-cm*
2-pass RO	> 17,5	MΩ-cm *
DI water	> 18	MΩ-cm *
Sodium (Na^+) Removal	99,8	%
Chloride (Cl^-) Removal	99,8	%
Silica (SiO_2) Removal	≥ 95	%
Boron (B) Removal	≥ 95	%
** Actual performance may be determined using IP-Pro projection software available from IonPure.*		
Operating Parameters		
Recovery	98,5 – 99	%
Flow rate: minimum	7,5	m3/hr
Flow rate: nominal	12,5	m3/hr
Flow rate: maximum	16,7	m3/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 CO2 and Silica	< 10	µS/cm
Feed water source	2 Pass RO permeate	
Temperature min to max	20 to 45	°C
Inlet pressure	1,4 – 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 CaCO3)	< 1,0	ppm
Dissolved organics (TOC as C)	< 0,5	ppm
Silica (SiO2)	< 1,0	ppm

DEIONX – PURE QUALITY