Fact Sheet

IONPURE® IP-VNX55-HH

High Hardness CEDI modules

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VNX55HH is designed to

- Typically > 16 MΩ-cm product water resistivity
- 2 ppm (as $CaCO_3$) max feed water hardness
- In most cases can operate on single-pass RO permeate
- Resin, membrane and module construction optimized for feed water hardness tolerance
- No need for acid/caustic, neutralization systems or tank exchanges
- Significantly lower operating cost compared to conventional ion exchange systems
- Robust leak-free sealing with through-port gasket
- Continuous production of consistent quality
- Junction box for convenient and safe power connections

Description and use

The VNX55HH module is designed with proven Ionpure® continuous electrodeionization (CEDI) technology to produce high purity water. The internal design has been optimized to handle a high feed water hardness while still able to provide ultrapure water quality water at high flow rate required for many applications, specifically within the power industry.

Typical Applications

- Power 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-HH 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		> 16	MΩ-cm*
Sodium (Na^+) Removal		99,5	%
Chloride (Cl^-) Removal		99,8	%
Silica (SiO_2) Removal		≥ 90	%
** Actual performance may be determined using IP-Pro projection software available from IonPure.*			
Operating Parameters			
Recovery		95 – 97,5 %	
Flow rate: minimum	80% recovery	4,5	m3/hr
	90% recovery	5,2	m3/hr
Flow rate: nominal	80% recovery	10,0	m3/hr
	90% recovery	11,4	m3/hr
Flow rate: maximum	80% recovery	12,6	m3/hr
	90% recovery	14,1	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	< 40	µS/cm
Feed water source	RO permeate	
Temperature min to max	5 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)	< 2,0	ppm
Dissolved organics (TOC as C)	< 0,5	ppm
Silica (SiO2)	< 1,0	ppm

DEIONX – PURE QUALITY