



Ionpure® VNX55-EP High Flow Continuous Electrodeionization (CEDI) Modules

## IONPURE® VNX55-EP HIGH FLOW CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES

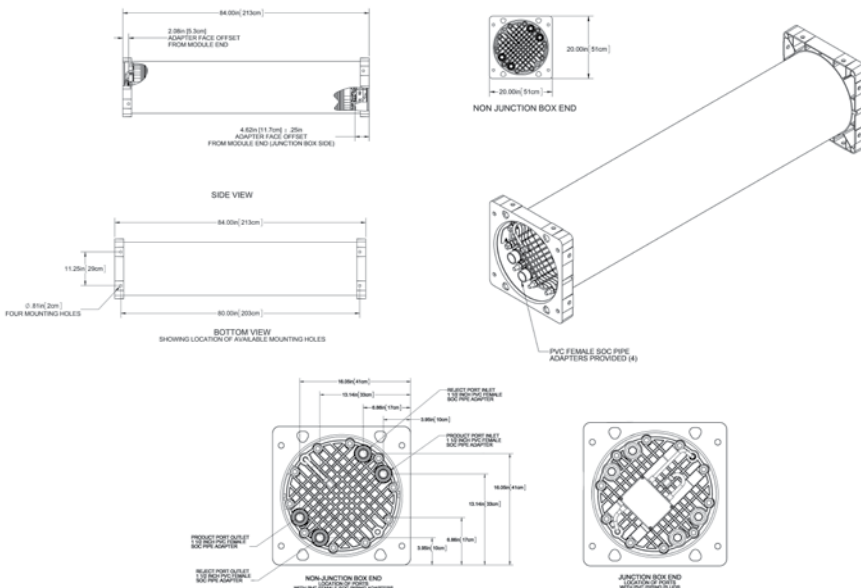
### IONPURE VNX MODULE - VNX55EP -2

The Ionpure® VNX55-EP high flow module is designed with proven continuous electrodeionization (CEDI) technology to produce high purity water. Proprietary Flexmount™ connectors create a support system for the modules, which simplifies the systems design to reduce overall capital cost.

Each VNX55-EP module has a nominal flow rate of 55 gpm (12.5 m<sup>3</sup>/hr). The VNX55-EP module expands our VNX product offering, providing ultrapure water for critical power and high purity applications. Multiple 55 gpm modules provide for simplified system design with flow rates up to, and greater than 1,000 gpm.

### VNX55-EP Series Features

- Typically > 17 MΩ-cm product water resistivity
- Designed to meet low sodium, chloride, and sulfate requirements for super critical boilers
- Silica and Boron removal is typically > 95%
- 1 ppm maximum feed water hardness (as CaCO<sub>3</sub>)
- Up to 95% recovery
- No need for acid/caustic, neutralization systems or DI tank exchanges
- Robust leak free sealing with through-port gasket
- Connection fittings are included
- On-board junction box



For additional information on our VNX Series call +1 866.876.3340 or visit our website at [www.ionpure.com](http://www.ionpure.com).

## OPERATING ENVIRONMENT

Installation should be indoors with no direct sunlight and should have a maximum ambient room temperature of 113°F (45°C).

## MATERIAL CONSTRUCTION

- Wetted components of the VNX module consist of: PVC (adapters), nylon/ABS, polypropylene, silicone, ion-selective membranes, ion exchange resins and thermoplastic elastomer.
- Housing is fiberglass reinforced plastic (FRP). Standard color is white with a glossy finish. Custom colors and labeling are available.
- The proprietary Flexmount™ bracket/end-block assembly is an epoxy painted aluminum casting suitable for securing modules to the frames and/or each other in Ionpure® system approved configurations.

## QUALITY ASSURANCE STANDARDS

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

## ORDERING INFORMATION

- Use model number IP-VNX55EP-2 (W3T262280) when ordering for vertical or horizontal installation.
- Each VNX module has four process connections; feed, concentrate feed, product and reject. PVC adapters (with dust covers) and plugs are provided with the module. High purity 50 mm polypropylene adapters are also available.
- Module electrical power connections are made through an on-board junction box.

## Maximum Feed Water Specifications

Feed Water Conductivity Equivalent, including CO <sub>2</sub> and Silica	<40µS/cm
Feed Water Source	RO permeate or DI water
Temperature	41 - 113°F (5 - 45°C)
Inlet Pressure	20 - 100psi (1.4 - 7bar)
Maximum Total Chlorine (as Cl <sub>2</sub> )	< 0.02 ppm
Iron (as Fe)	< 0.01 ppm
Manganese (as Mn)	< 0.01 ppm
Sulfide (S <sup>2-</sup> )	< 0.01 ppm
pH	4 - 11
Total Hardness (as CaCO <sub>3</sub> )	≤ 1.0 ppm
Dissolved Organics (TOC as C)	< 0.5 ppm
Silica (SiO <sub>2</sub> )	< 1.0 ppm

## Typical Module Performance

Operating Parameters	
Recovery	90 - 95%
Flow Rate: Minimum	25 gpm (5.7 m <sup>3</sup> /h)
Flow Rate: Nominal	55 gpm (12.5 m <sup>3</sup> /h)
Flow Rate: Maximum	82.5 gpm (18.7 m <sup>3</sup> /h)
DC Voltage	0 - 600
DC Amperage	0 - 13.2

## Product Water Quality

Product Resistivity – RO Permeate	> 17 MΩ.cm*
Product Resistivity – DI Water	> 18 MΩ.cm*
Silica (SiO <sub>2</sub> ) Removal	≥ 95%
Boron (B) Removal	≥ 95%
Sodium (Na <sup>+</sup> ) Removal	99.8%
Chloride (Cl <sup>-</sup> ) Removal	99.8%

\*Actual performance may be determined using the IP-Pro projection software available from Ionpure.

## Physical Specifications

Diameter	Width	Height	Length	Shipping Weight	Operating Weight
17.5" (44.45 cm)	20.0" (50.8 cm)	20.0" (50.8 cm)	84.0" (213.3 cm)	610 lbs (276.7 kg)	825 lbs (374.2 kg)



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[www.evoqua.com/ionpure](http://www.evoqua.com/ionpure)

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