

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

## Ionpure® VNX Module – VNX55EP-2

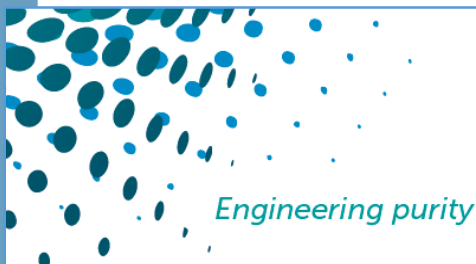
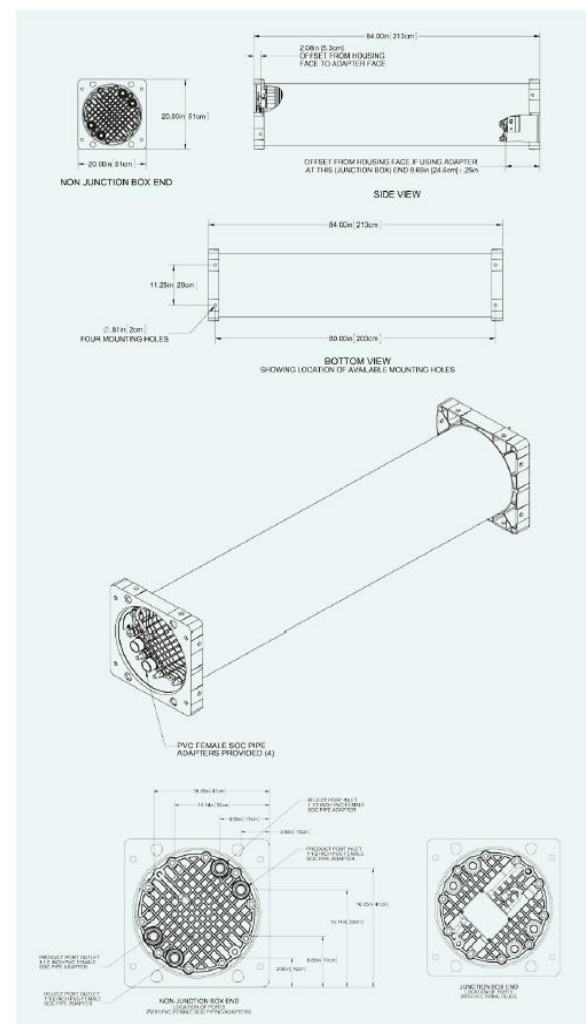
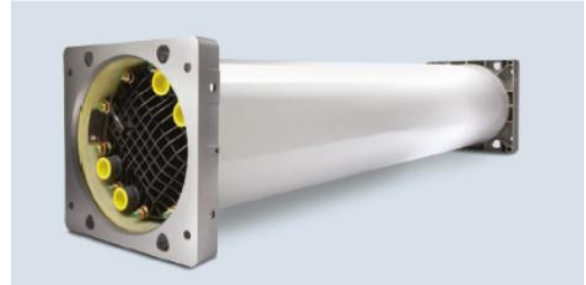
The Ionpure® VNX55-EP high flow module is designed with proven continuous electrodeionization (CEDI) technology to produce high purity water. Proprietary Flexmount™ connectors create a support system for the modules, which simplifies the systems design to reduce overall capital cost.

Each VNX55-EP module has a nominal flow rate of 55 gpm (12.5 m<sup>3</sup>/h). 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
- Optional PP 3-part union adapters

For additional information call +31 165 348 253 or visit our website at [www.purewatergroup.com](http://www.purewatergroup.com)



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

## Operating environment

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

## Material of construction

1. Installation components of the VNX module consists of: PVC (adapters), nylon/ABS polyphenylene oxide, polypropylene, silicone, ion-selective membranes, ion exchange resins and thermoplastic elastomer.
2. Housing is fiberglass reinforced plastic (FRP). Standard colour is white with glossy finish. Custom colours and labeling are available.
3. 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

1. Use model number IP-VNX55EP-2 (W3T262280) when ordering for vertical or horizontal installation.
2. Each VNX module has four process connections: feed, concentrate feed, product and reject. Non-metric PVC adapters (with dust covers) and plugs are provided with the module. Metric 3-part polypropylene adapters are available as an option.
3. 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	< 40 µS/cm
Feed water source	RO permeate
Temperature	40 - 113°F (5 - 45°C)
Inlet pressure	20 - 100 psi (1.4 - 7 bar)
Maximum total chlorine (as Cl <sub>2</sub> )	< 0.02 ppm
Iron (Fe)	< 0.01 ppm
Manganese (Mn)	< 0.01 ppm
Sulphide (S <sup>-</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	25.0 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 permeate	> 18 MΩ-cm*
Silica (SiO <sub>2</sub> ) removal	≥ 95%
Boron (B) removal	≥ 95%
Sodium (Na) removal	99.8%
Chloride (Cl) 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)