

# VNX-Mini High Flow Continuous Electrodeionization (CEDI) Modules

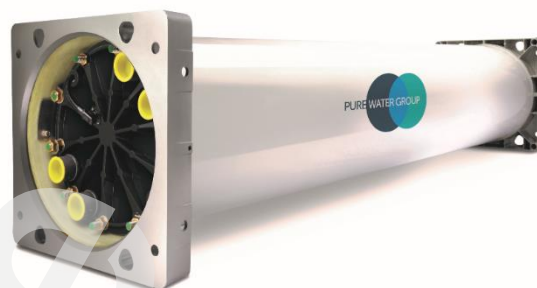
## Ionpure® VNX Module — VNX-Mini

The VNX-platform provides the highest flow rate per module of any other CEDI module available today. The VNX-Mini expands on that legacy with the same proven CEDI technology to produce high-purity water with a nominal flow rate of 12 m<sup>3</sup>/h (52.8 gpm) in a compact package, allowing for a smaller footprint high-flow systems.

The VNX-Mini utilize connectors for stacking VNX modules and simple hydraulics connections that keep system design and overall capital cost to a minimum.

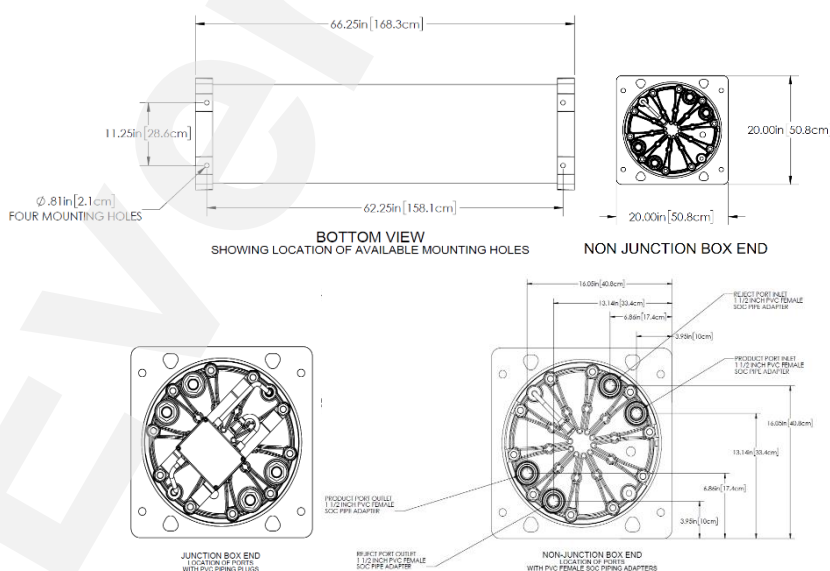
The VNX-Mini can be combined with our most advanced switch mode high-frequency power supply (PSSW) to ensure you have the power available to meet your performance needs.

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



### VNX-Mini Series Features

- Typically > 17 MΩ-cm product water resistivity
- Maximum flow per VNX-Mini module of 18 m<sup>3</sup>/h (79.2 gpm)
- 1 ppm maximum feed water hardness (as CaCO<sub>3</sub>)
- Up to 95% recovery
- Ideal for critical boiler feed applications
- On-board junction box
- Optional PP 3-part union connectors
- Robust leak-free design with standard 3-year\* warranty



\*3-Year Prorated warranty see warranty documents for details.

Engineering purity



INTERNATIONAL IONPURE MASTER SERVICE PROVIDER

# VNX-Mini High Flow Continuous Electrodeionization (CEDI) Modules

## Operating environment

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

## Materials of construction

1. Wetted components of the VNX module consists of: PVC (adapters), nylon/ABS polyphenylene, silicone, ion-selective membranes, ion exchange resins and thermoplastic elastomer.
2. Polypropylene 3-part union connectors available for purchase.
3. Housing is fiberglass reinforced plastic (FRP). Standard color is white with glossy finish. Custom colors and labeling are available.
4. The bracket/end-block assembly is an epoxy painted aluminum casting suitable for securing modules to the frames and/or each other in Pure Water Group 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.

Halal certification: all Ionpure modules are manufactured in accordance with the Islamic Food and Nutrition Council of America Standards (IFANCA), and will carry the Crescent M Halal Logo.

### Accessories Ordering Information

Model	Description
PSSW60012	3ph DC power supply 3x400 VAC-600VDC/12A/4.8kW
CISW00108	Control Interface for communication between PSSW & PLC
DSPSSW01	Control Display for PSSW
CSXPP3P06	Connection set VNX-2, PP-3P, 2x50DN40, 2x25DN20

### Ordering Information and Physical Specifications

Order #	Module #	Width	Height	Length	Shipping Weight
W3T428759	IP-VNX-Mini	50.8 cm (20.0")	50.8 cm (20.0")	168 cm (66.14")	159 kg (350 lbs)

### Maximum Feed Water Specifications

Feed water conductivity equivalent, Including CO <sub>2</sub> and Silica	≤ 40 µS/cm
Feed water source	RO permeate
Temperature	5 – 45°C (40 - 113°F)
Maximum inlet pressure	6.9 bar (100 psi)
Maximum total chlorine (as Cl <sub>2</sub> )	< 0.02 ppm
Iron (Fe)	< 0.01 ppm
Manganese (Mn)	< 0.01 ppm
Sulphide (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	6 m <sup>3</sup> /h (26.4 gpm)
Flow rate: nominal	12 m <sup>3</sup> /h (52.8 gpm)
Flow rate: maximum	18 m <sup>3</sup> /h (79.2 gpm)
DC voltage	0 – 600
DC amperage	0 – 7
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.

#### Pure Water Group

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