





IONPURE® VNX-MAX AND VNX-MINI CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES

IONPURE IP-VNX-MAX AND IP-VNX-MINI CEDI MODULES

The VNX platform from IONPURE[®] provides the highest flow rate per module of any other CEDI module available today. The VNX-Max expands on that legacy with the same proven CEDI technology to produce high-purity water with an even higher nominal flow rate of 15 m³/h (66 gpm).

The VNX-Mini provides a nominal flow rate of $12 \text{ m}^3/\text{h}$ (52.8 gpm) in a compact package, allowing for smaller footprint high-flow systems.

VNX-Max and VNX-Mini utilize the proprietary Flexmount[™] connectors for stacking VNX modules and simple hydraulic connections that keep system design and overall capital cost to a minimum.



VNX-Max and VNX-Mini Features

- Typically >17 MΩ-cm product water quality at nominal flow
- Largest flow per CEDI module with maximum flow rates of 22.7 m³/h (100 gpm) on VNX-Max and 17.9 m³/h (79.2 gpm) for VNX-Mini
- 1 ppm maximum feed water hardness (as CaCO₃)
- Up to 95% recovery
- Ideal for critical boiler feed applications
- On-board junction box
- PVC connection fittings and port plugs
 included
- Robust, leak-free design with standard 3-year* warranty
- On-board NEMA 4X, IP67 junction box for DC power connections

For additional information of IONPURE Products visit our web site at **www.ionpure.com**. Follow us on Twitter @IONPURE_CEDI.

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

OPERATING ENVIRONMENT

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

MATERIALS CONSTRUCTION

- Wetted components of the VNX module consist of: PVC (adapters), nylon/ABS, polypropylene, silicone, ion-selective membranes, ion exchange resins, and thermoplastic elastomer.
- Polypropylene sanitary connectors available for purchase.
- 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.
- 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

Ordering #	Model #	Description
W2T829935	P-POWERDSP-TP	4.3" Touch Panel Display
W2T394491	IP-CABLE50CM-G2	1.6ft (50cm) Ethernet Cable
W2T394495	IP-CABLE2M-G2	6.5ft (2m) Ethernet Cable
W3T17348	IP-VNX-CK-PP-2	50mm Butt Weld

Maximum Feed Water Specifications

Feed Water Conductivity Equivalent, including $\rm CO_2$ and Silica	≤ 40 µs/cm
Feed Water Source	RO Permeate or DI water
Temperature	50° - 113° F (10° - 45° C)
Inlet Pressure	6.9 bar (100 PSI)
Maximum Total Chlorine (as Cl_2)	≤ 0.02 ppm
Iron (as Fe)	<u><</u> 0.01 ppm
Manganese (as Mn)	≤ 0.01 ppm
Sulfide (H ₂ S)	≤ 0.01 ppm
pН	4 - 11
Total Hardness (as CaCO ₃)	≤ 1.0 ppm
Dissolved Organics (TOC as C)	≤ 0.5 ppm
Silica (SiO ₂)	≤ 1.0 ppm

Typical Module Performance

	VNX-Max	VNX-Mini		
Minimum Flow	7.5 m³/h (33 gpm)	6.0 m³/h (26.4 gpm)		
Nominal Flow	15.0 m³/h (66 gpm)	12.0 m³/h (52.8 gpm)		
Maximum Flow	22.7 m ³ /h (100 gpm)	17.9 m³/h (79.2 gpm)		
Product Resistivity - RO permeate feed	> 17 MΩ- CM			
Product Resistivity - DI water feed	> 18 MΩ- CM			
Silica (SiO2) Removal	≥95%			
Boron (B) Removal	≥ 95%			
Sodium (Na+) Removal	<u>></u> 99.8%			
Chloride (Cl) Removal	<u>≥</u> 99.8%			
Recovery	90 - 95%			
DC Voltage	0 - 600			
DC Amperage	1 - 7.0			

Actual performance may be determined using the IP-Pro projection software available from lonpure.

ORDERING INFORMATION AND SPECIFICATIONS

Order #	Module #	Description	Width inch (cm)	Height inch (cm)	Length inch (cm)	Shipping Weight Ibs (kg)
W3T417958	IP-VNX-MAX-1	VNX-Max Module Only	20" (50.8)	20" (50.8)	84" (213.3)	895 (406)
W3T417959	IP-VNX-MINI-1	VNX-MINI Module Only	20" (50.8)	20" (50.8)	66.14" (168)	790 (358.3)



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