evoqua
WATER TECHNOLOGIES

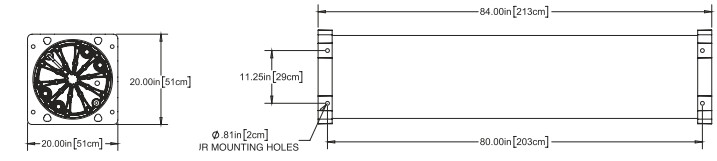
IONPURE® VNX-MAX AND VNX-MINI CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES

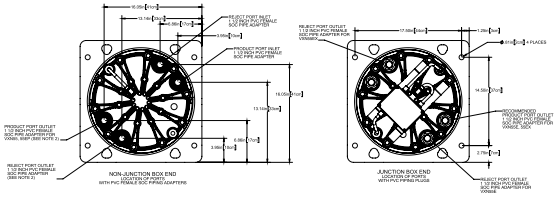
IONPURE IP-VNX-MAX AND IP-VNX-MINI CEDI MODULES

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 m^3/h (66 gpm).

The VNX-Mini provides a nominal flow rate of 12 m^3/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.





Note: IP-VNX-MAX Module shown.

VNX-Max and VNX-Mini Features

- Typically >17 MW-cm product water quality at nominal flow
- Largest flow per CEDI module with maximum flow rates of 22.7 m^3/h (100 gpm) on VNX-Max and 17.9 m^3/h (79.2 gpm) for VNX-Mini
- 1 ppm maximum feed water hardness (as $CaCO_3$)
- 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.

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Evolving solid solutions.

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 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)	≤ 0.01 ppm
Manganese (as Mn)	≤ 0.01 ppm
Sulfide (H_2S)	≤ 0.01 ppm
pH	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 m^3/h (33 gpm)	6.0 m^3/h (26.4 gpm)
Nominal Flow	15.0 m^3/h (66 gpm)	12.0 m^3/h (52.8 gpm)
Maximum Flow	22.7 m^3/h (100 gpm)	17.9 m^3/h (79.2 gpm)
Product Resistivity - RO permeate feed	> 17 MW- CM	
Product Resistivity - DI water feed	> 18 MW- CM	
Silica (SiO2) Removal	≥ 95%	
Boron (B) Removal	≥ 95%	
Sodium (Na+) Removal	≥ 99.8%	
Chloride (Cl) Removal	≥ 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 Ionpure.

ORDERING INFORMATION AND SPECIFICATIONS

Order #	Module #	Description	Width inch (cm)	Height inch (cm)	Length inch (cm)	Shipping Weight lbs (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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