







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

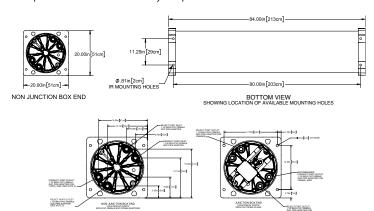
### **IONPURE IP-VNX-MAX AND IP-VNX-MINI CEDI MODULES**

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  $\text{m}^3$ /h (66 gpm).

The VNX-Mini provides a nominal flow rate of 12 m<sup>3</sup>/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.

The VNX-Max and VNX-Mini are bundled with our most advanced power controller to date, DC3<sup>+</sup> (IP-DC3PH600V-M1), a 3-phase switch mode rectifier and DC power controller, capable of up to 600 volts DC and 15 amps to ensure you have the power available to meet your performance needs.



#### **VNX-Max and VNX-Mini Features**

- Typically >17 M $\Omega$ -cm product water quality at nominal flow
- Largest flow per CEDI module with maximum flow rates of 22.7 m<sup>3</sup>/h (100 gpm) on VNX-Max and 17.9 m<sup>3</sup>/h (79.2 gpm) for VNX-Mini
- 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
- PVC connection fittings and port plugs included
- Robust, leak-free design with standard 3-year\* warranty

# **Bundled DC3 Power Supply Features**

- Direct connect from line power, no isolation transformer required
- High-efficiency, 3-phase switch-mode power supply
- 380-480 VAC, 50/60Hz input range

For additional information of IONPURE Products visit our web site at <a href="https://www.ionpure.com">www.ionpure.com</a>. Follow us on Twitter @IONPURE\_CEDI.

<sup>\*3-</sup>Year Prorated warranty see warranty documents for details.

<sup>+</sup>DC3 power supply must be installed in suitable electrical enclosure, see product manual 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<sup>™</sup> 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	Polypropylene Pipe Adapter/ Plug Kit		

#### **Maximum Feed Water Specifications**

Feed Water Conductivity Equivalent, including CO <sub>2</sub> and Silica	≤ 40 μs/cm		
Feed Water Source	RO Permeate or DI water		
Temperature	41° - 113° F (5° - 45° C)		
Inlet Pressure	6.9 bar (100 PSI)		
Maximum Total Chlorine (as Cl <sub>2</sub> )	< 0.02 ppm		
Iron (as Fe)	< 0.01 ppm		
Manganese (as Mn)	< 0.01 ppm		
Sulfide (S2-)	< 0.01 ppm		
рН	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**

	VNX-Max	VNX-Mini		
Minimum Flow	7.5 m <sup>3</sup> /h (33 gpm)	6.0 m <sup>3</sup> /h (26.4 gpm)		
Nominal Flow	15.0 m³/h (66 gpm)	12.0 m³/h (52.8 gpm)		
Maximum Flow	22.7 m <sup>3</sup> /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	≥ 99.8%			
Chloride (CI) Removal	≥ 99.8%			
Recovery	90 - 95%			
DC Voltage	0 - 600	0 - 470		
DC Current	0 - 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 lbs (kg)
W3T417955	IP-VNX-MAX-1P	VNX-Max w/ DC3 Power Supply	20" (50.8)	20" (50.8)	84" (213.3)	650 (295)
W3T417958	IP-VNX-MAX-1	VNX-Max Module Only	20" (50.8)	20" (50.8)	84" (213.3)	650 (295)
W3T417957	IP-VNX-MINI-1P	VNX-MINI w/ DC3 Power Supply	20" (50.8)	20" (50.8)	66.14" (168)	350 (159)
W3T417959	IP-VNX-MINI-1	VNX-MINI Module Only	20" (50.8)	20" (50.8)	66.14" (168)	350 (159)





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