



# VNX-Max 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: 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

PSSW60012	DC power supply 3x400 VAC-600VDC/12A/4.8kW
CISW00108	Control Interface for communication PSSW - PLC
DSPPSW08	Control display for 1-8x PSSW
DSPPSW01	Control Display for PSSW
CSXPP3P06	Con. set VNX-2, PP-3P, 2x50DN40, 2x25DN20, 2018 version

### Maximum Feed Water Specifications

Feed water conductivity equivalent, Including CO <sub>2</sub> and Silica	≤ 40 µS/cm
Feed water source	RO permeate
Temperature	10 – 45°C (50 - 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>-</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	7.5 m <sup>3</sup> /h (33 gpm)
Flow rate: nominal	15 m <sup>3</sup> /h (66 gpm)
Flow rate: maximum	22.5 m <sup>3</sup> /h (100 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 projection software

### Ordering Information and Physical Specifications

Order #	Module #	Width	Height	Length	Shipping Weight
0111000035	VNX-MAX-1	50.8 cm (20.0")	50.8 cm (20.0")	213.3 cm (84.0")	475 kg (1047 lbs)

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