

OPERATING ENVIRONMENT

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

MATERIAL CONSTRUCTION

- Wetted components of the VNX module consist of: PVC, polyphenylene oxide, polypropylene, silicone, ion-selective membranes, ion exchange resins and thermoplastic elastomer.
- 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.

ORDERING INFORMATION

- Use model number IP-VNX50-3 when ordering for vertical or horizontal installation.
- Each VNX module has four process connections; feed, concentrate feed, product and reject. PVC adapters (with dust covers) and plugs are provided with the module. High purity 50mm polypropylene adapters are also available.
- Module electrical power connections are made through an on-board junction box.

PHYSICAL SPECIFICATIONS

Diameter	Width	Height	Length	Shipping Weight	Operating Weight
17.5" (44.45 cm)	20.0" (50.8 cm)	20.0" (50.8 cm)	84.0" (213.3 cm)	610 lbs (276.7 kg)	825 lbs (374.2 kg)

Maximum Feed Water Specifications

Feed Water Conductivity Equivalent, including CO ₂ and Silica	< 40 µS/cm
Feed Water Source	RO permeate
Temperature	40 - 113°F (5 - 45°C)
Inlet Pressure	20 - 100 psi (1.4 - 7 bar)
Maximum Total Chlorine (as Cl ₂)	< 0.02 ppm
Iron (as Fe)	< 0.01 ppm
Manganese (as Mn)	< 0.01 ppm
Sulfide (S ⁻)	< 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

Operating Parameters

Recovery	90 - 95%
Flow Rate: Minimum	25.0 gpm (5.7 m ³ /hr)
Flow Rate: Nominal	50 gpm (11.4 m ³ /hr)
Flow Rate: Maximum	75 gpm (17.0 m ³ /hr)
DC Voltage	0 - 600
DC Amperage	0 - 13.2

Product Water Quality

Product Resistivity	> 16 megohm-cm*
Silica (SiO ₂) Removal	90 - 99%, depending on feed conditions

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



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