



## OPERATING ENVIRONMENT

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

## MATERIAL CONSTRUCTION

1. Wetted components of the VNX module consist of: PVC (adapters), nylon/ABS, polypropylene, silicone rubber, ion-selective membranes, ion exchange resins and thermoplastic elastomer.
2. Housing is fiberglass reinforced plastic (FRP). Standard color is white with a glossy finish. Custom colors and labeling are available.
3. The proprietary Flexmount™ bracket/end-block assembly is an epoxy painted aluminum casting suitable for securing modules to the frame and/or each other in lonpure® 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

1. Use model number IP-VNX55E-2 (W3T306193) when ordering for vertical or horizontal installation.
2. 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 50 mm polypropylene adapters are also available.
3. High purity 50mm butt weld connection kits adapter (4)/plug (4):  
Natural polypropylene — Model #IP-VNX-CK-PP-2
4. Standard 1.5" female socket connection kits (4)/plug (4):  
PVC — Model #IP-VNX-CK-PVC-2.
5. 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 <sub>2</sub> and Silica	< 10 µS/cm
Feed water source	RO permeate (2 pass) or DI water
Temperature	68 - 113°F (20 - 45°C)
Inlet pressure	20 - 100 psi (1.4 - 7 bar)
Maximum total chlorine (as Cl <sub>2</sub> )	< 0.02 ppm
Iron (Fe)	< 0.01 ppm
Manganese (Mn)	< 0.01 ppm
Sulfide (H <sub>2</sub> S)	< 0.01 ppm
pH	4 - 11
Total hardness (as CaCO <sub>3</sub> )	< 0.1 ppm
Dissolved organics (TOC as C)	< 0.5 ppm
Silica (SiO <sub>2</sub> )	< 0.2 ppm

## TYPICAL MODULE PERFORMANCE

### OPERATING PARAMETERS

Recovery	98.5 - 99%
Flow rate: minimum	33 gpm ( 7.5m <sup>3</sup> /hr)
Flow rate: nominal	55 gpm (12.5 m <sup>3</sup> /hr)
Flow rate: maximum	73.5 gpm (16.7 m <sup>3</sup> /hr)
DC voltage	0 - 600
DC amperage	0 - 13.2**

### PRODUCT WATER QUALITY

Product resistivity 2-pass RO Permeate	> 17.5 megohm-cm*
Product resistivity — DI water	> 18 megohm-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 IP-Pro projection software available from lonpure®

\*\*0-10 amp typical for most applications.



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