Ionpure[®] VNX30-CDIT High Flow Continuous Electrodeionization (CEDI) Modules

Ionpure VNX Module – VNX30CDIT-2

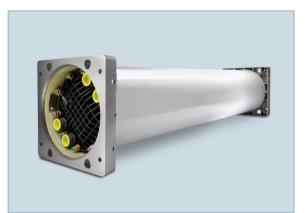
The lonpure[®] VNX30-CDIT module is designed with proven continuous electrodeionization (CEDI) technology to produce high purity water. Performance has been optimized for suitability on most single-pass reverse osmosis feed waters. CDIT is designed for feed water with up to 4 ppm of hardness greatly widening the application window for CEDI technology.

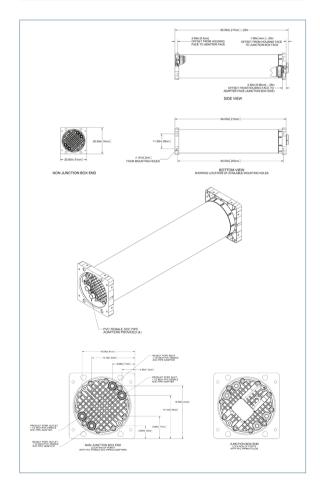
Each VNX30-CDIT industrial module has a nominal flow rate of 30 gpm (6.8 m³/hr). Multiple 30 gpm modules provide for system designs with flow rates up to, and greater than 1,000 gpm.

VNX30-CDIT Series Features

- 4 ppm as CaCO₃ max feed water hardness
- 2 ppm as SiO₂ max feed water silica
- Expanded CO₂ removal capabilities
- In most cases can operate on single pass RO permeate
- Thin cell technology optimized for feed water hardness tolerance
- No need for acid/caustic, neutralization systems or tank exchanges
- Significantly lower operating cost compared to conventional ion exchange systems
- Robust guaranteed leak free operation
- Continuous production of consistent quality
- Junction box for convenient and safe power connections

For additional information on our VNX30 series call +1 866.876.3340 or visit our website at www.ionpure.com.





Data Sheet

SIEMENS

Water Technologies

Operating Environment

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

Materials Construction

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

- 1. Model number to use when ordering for vertical or horizontal installation use IP-VNX30CDIT-2.
- 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 50mm polypropylene adapters are also available
- High purity 50mm butt weld connection kits adapter(4)/plug(4):

Natural Polypropylene - Part #IP-VNX-CK-PP-2

4. Standard 1-1/2" female socket connection kits adapter(4)/plug(4):

PVC - Part #IP-VNX-CK-PVC-2

5. Module electrical power connections are made through an on-board junction box.

Maximum Feed Water Specifications

Feed Water Conductivity Equivalent, including CO ₂ and Silica	< 100 µS/cm
Feed Water Source	RO permeate
Temperature	41 – 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 (as S ²⁻)	< 0.01 ppm
рН	4 - 11
Total Hardness (as CaCO ₃)	< 4.0 ppm
Dissolved Organics (TOC as C)	< 0.5 ppm
Silica (as SiO ₂)	< 2.0 ppm

Typical Module Performance				
Operating Parameters				
Recovery	80 - 90%			
Flow Rate: Minimum	15 gpm (3.4 m ³ /hr)			
Flow Rate: Nominal	30 gpm (6.8 m ³ /hr)			
Flow Rate: Maximum	45 gpm (10.2 m³/hr)			
DC Voltage	0 - 600			
DC Amperage				
0 – 1.5 ppm Hardness	0 – 13.2 amps			
1.5 – 2.5 ppm Hardness	0 – 8 amps			
2.5 – 4 ppm Hardness	0 – 4 amps			
Product Water Quality				
Product Resistivity	>16 megohm-cm*			
*Actual performance may be determined usir available from lonpure®.	g the IP-Pro projection software			
Silica (SiO ₂) Removal	≥ 95%			
Sulphate (SO ₄) Removal	≥ 99.5%			

			Chloride (Cl ⁻) Removal		≥ 99.5%	
cal Specificatio	ons					
Diameter	Width	Height	Length	Shipping Weight	Operating Weight	
17.5″ 4.45 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)	

Sodium (Na+) Removal

Siemens Industry, Inc.

10 Technology Drive Lowell, MA 01851

Di

(44

+1 866.876.3340 (tel)

© 2013 Siemens Industry, Inc. HPS-VNX30CDIT-DS-0313 Subject to change without prior notice. lonpure is a trademark of Siemens, its subsidiaries or affiliates in some countries.

> 99.5%

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.