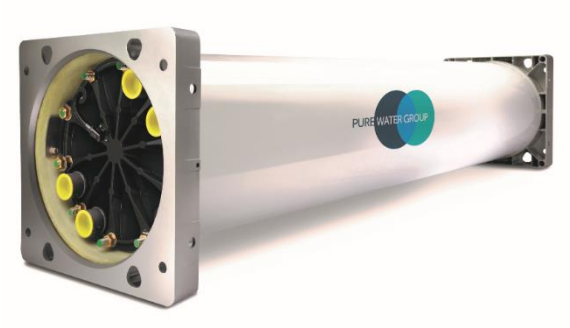
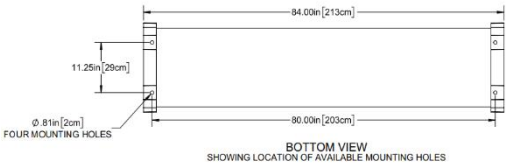
Ionpure® VNX30-CDIT High Flow Continuous Electrodeionization(CEDI) Modules

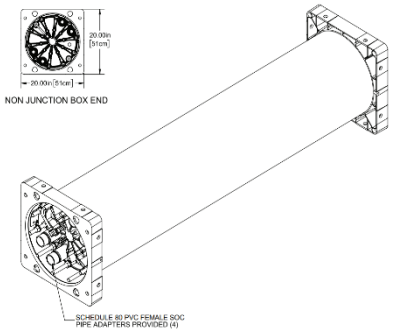
Ionpure® VNX Module — VNX30-CDIT

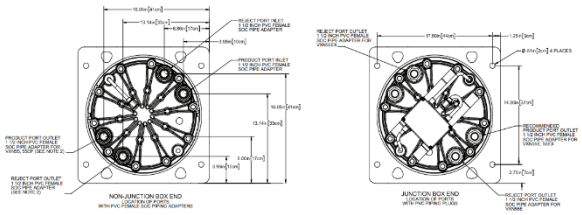
The Ionpure® VNX30-CDIT high flow module is designed with proven continuous electrodeionization (CEDI) technology to produce high purity water. Performance has been optimized for suitability on most single-pass reverse osmosis feed waters. CDIT is designed for feed water up to 4ppm of hardness greatly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

Each VNX30-CDIT industrial module has a nominal flow rate of 6.8 m^3/h (30 gpm). Multiple 30 gpm modules provide for simplified system design with flow rates up to, and greater than 1,000 gpm.









VNX30-CDIT Series Features

- 4 ppm as $CaCO_3$ max feed water hardness
- 2 ppm as SiO_2 max feed water silica
- Expanded CO_2 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 DI tank exchanges
- Significantly lower operational costs compared to conventional ion exchange
- Robust guaranteed leak free operation
- Continuous production of consistent quality
- Connection fittings are included
- On-board junction box
- Optional PP 3-part union adapters

For additional information call +31 165 348 253 or visit our website at www.purewatergroup.com

Engineering purity

PURE WATER GROUP

INTERNATIONAL IONPURE MASTER SERVICE PROVIDER

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

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

Material of construction
1. Wetted components of the VNX module consist of: PVC (adapters), nylon/ABS, 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 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.

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.

Ordering Information
1. Use model number IP-VNX30CDIT-2 (W3T327398) when ordering for vertical or horizontal installation.
2. Each VNX module has four process connections: feed, concentrate feed, product and reject. Non-metric PVC adapters (with dust covers) and plugs are provided with the module. Metric 3-part polypropylene adapters are available as an option.
3. 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 Cl2)	< 0.02 ppm
Iron (Fe)	< 0.01 ppm
Manganese (Mn)	< 0.01 ppm
Sulphide (S^-)	< 0.01 ppm
pH	4 – 11
Total hardness (as $CaCO_3$)	< 4.0 ppm
Dissolved organics (TOC as C)	< 0.5 ppm
Silica (SiO_2)	< 2.0 ppm

Typical Module Performance

Operating Parameters	
Recovery	80 – 90%
Flow rate: minimum	15 gpm (3.4 m^3/h)
Flow rate: nominal	30 gpm (6.8 m^3/h)
Flow rate: maximum	45 gpm (10.2 m3/h)
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 MΩ-cm*
Silica (SiO_2) removal	≥ 95%
Sulphate (SO_4) removal	≥ 99.5%
Sodium (Na) removal	≥ 99.5%
Chloride (Cl) removal	≥ 99.5%

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

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)

Pure Water Group

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