

# Ionpure® VNX15CDIT-2 Mid-Range Flow Continuous Electrodeionization (CEDI) Modules

## VNX Module — VNX15CDIT-2

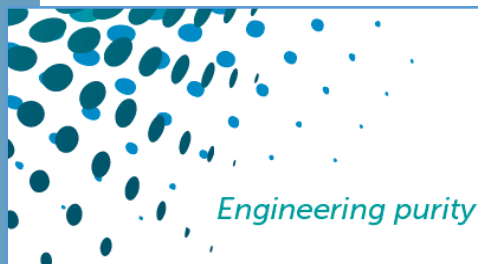
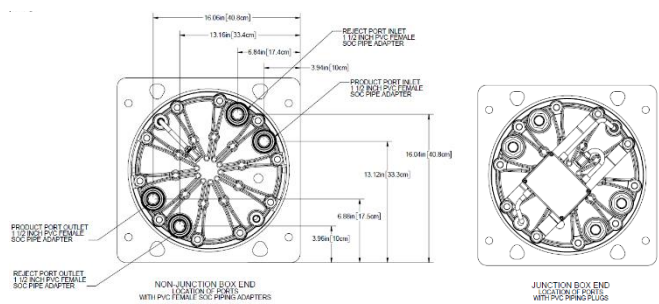
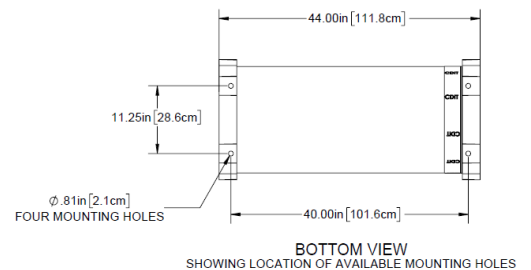
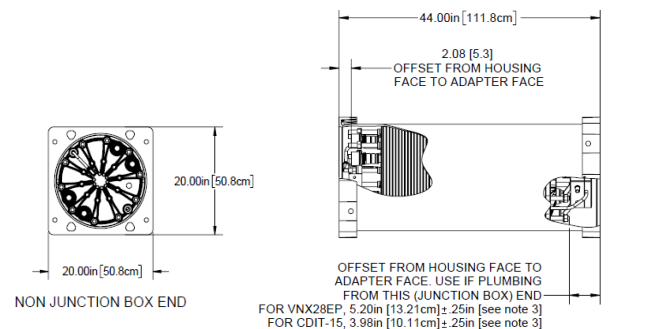
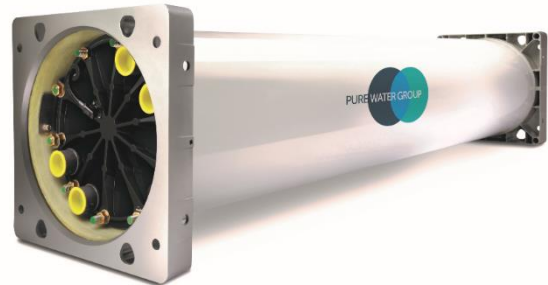
The VNX15CDIT-2 mid-range flow module is designed with proven continuous electrodeionization (CEDI) technology to produce high purity water. Performance has been optimized for suitability on most single-pass reverse osmosis feed waters. CDIT is designed for feed water up to 4ppm of hardness greatly widening the application window for CEDI technology.

Each VNX15CDIT-2 industrial module has a nominal flow rate of 3.4 m<sup>3</sup>/h (15 gpm). Compact module design can be used in single or multiple module arrangements to minimize overall system footprint.

## VNX15CDIT-2 Series Features

- 4 ppm as CaCO<sub>3</sub> max feed water hardness
- 2 ppm as SiO<sub>2</sub> max feed water silica
- Expanded CO<sub>2</sub> removal capabilities
- In most cases can operate on single pass RO permeate
- Thin cell technology optimized for feed water hardness tolerance
- Continuous production of consistent quality
- On-board junction box
- Optional PP 3-part union adapters
- Robust leak-free design with standard 3-year\* warranty

For additional information:  
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 call +31 165 348 253  
 or visit [www.purewatergroup.com](http://www.purewatergroup.com)



# VNX15CDIT-2 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).

## 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
DSPSSW08	Control display for 1-8x PSSW
DSPSSW01	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	< 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 <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> )	< 4.0 ppm
Dissolved organics (TOC as C)	< 0.5 ppm
Silica (SiO <sub>2</sub> )	< 2.0 ppm

### Typical Module Performance

#### Operating Parameters

Recovery	80 - 90%
Flow rate: minimum	7.5 gpm (1.7 m <sup>3</sup> /h)
Flow rate: nominal	15 gpm (3.4 m <sup>3</sup> /h)
Flow rate: maximum	22.5 gpm (5.1 m <sup>3</sup> /h)
DC voltage	0 - 600

#### DC Amperage

0 - 1.5 ppm hardness	0 - 6.6 amps
1.5 - 2.5 ppm hardness	0 - 4 amps
2.5 - 4 ppm hardness	0 - 2 amps

#### Product Water Quality

Product resistivity	> 16 MΩ-cm*
Silica (SiO <sub>2</sub> ) removal	≥ 95%
Sulphate (SO <sub>4</sub> ) removal	≥ 99.5%
Sodium (Na) removal	≥ 99.5%
Chloride (Cl) removal	≥ 99.5%

\*Actual performance may be determined using the projection software

### Ordering Information and Physical Specifications

Order #	Module #	Width	Height	Length	Shipping Weight
0111000028	VNX15CDIT-2	50.8 cm (20.0")	50.8 cm (20.0")	112 cm (44.0")	275 kg (606 lbs)

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