Fact Sheet

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# IONPURE® IP-VNX30-CDIT

## CEDI for high TDS applications


## VNX-CDIT is designed to

- Save water, increase RO system recovery up to 90%
- Combine in series with an EDR module to treat ≥ 750 ppm as NaCl feed and Silica levels ≥ 20 ppm
- Ideal for TDS up to 750 ppm and silica levels up to 20 ppm
- Flow rate up to 6,8 m3/h per module
- Thin-cell technology optimized for high TDS applications
- Compact Design
- Leak-Free guarantee
- On-Board Junction boxes
- Continuous treatment of high TDS water

## Description and use

The Ionpure® VNX-CDIT continuous Electrodeionization (CEDI) module, now proven suitable for high TDS applications. Expanded capabilities for feed water challenges up to 750 ppm as NaCl and silica up to 20 ppm.

## Typical Applications

- RO reject treatment
- High TDS applications

## Quality Assurance

- CE marked.
- Each module is factory tested to meet strict industry standards.
- IFANCA HALAL Certified.

| VNX30CDIT Module Specifications | | |
|---|---|---|
| Operating weight | 375 | kg |
| Dimensions (w x d x h) | 50,8 x 50,8 x 215 | cm |
| Flowrates min/nom/max | 3,4/6,8/10,2 | m3/h |

| Typical Performance (High TDS) | | |
|---|---|---|
| **Typical Performance** | | |
| Recovery | 68 | % |
| Salt (TDS) Removal | 80 | % |
| **Operating Parameters** | | |
| Recovery | 80 -90 | % |
| Silica (SiO2) Removal | 90 - 99<br>Depending on feed water | % |
| Sodium Removal | 99,5+ | % |
| Chloride Removal | 99,5+ | % |
| Maximum Feed Pressure | 5,5 | bar |
| DC Voltage* | 0 - 600 | VDC |
| DC Amperage at hardness<br>0 - 1,5 ppm<br>1,5 - 2,5 ppm<br>2,5 - 4,0 ppm | Maximum current<br>6,6<br>4,0<br>2,0 | <br>Amp<br>Amp<br>Amp |
| *Note: Actual performance may be determined using IP-Pro projection software available from IonPure.* | | |

| Maximum Feedwater Specifications | | |
|---|---|---|
| Feed water conductivity equivalent, including $CO_2$ and Silica | < 1500 | µS/cm |
| Temperature | 5 to 45 | °C |
| Inlet pressure | 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 |
| pH | 4 - 11 | |
| Total hardness (as $CaCO_3$) | ≤ 4,0 | ppm |
| Silica ($SiO_2$) | < 2,0 | ppm |
| Dissolved organics, TOC as C | < 0,5 | ppm |

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