

EFFECTIVE CO₂ REMOVAL

CO₂ is difficult for both RO and EDI to remove since it has no charge, or is weakly ionized. It is important to remove CO₂ in the EDI pretreatment because it will lower the EDI product water quality, will compete with silica for removal, and may lead to scaling of the EDI.

Here are 3 ways to remove CO₂ effectively in a system:

1. Corosex II absorbant media, prior to the RO
Benefits: Passive and chemical-free
Disadvantage: increases scaling potential
2. Raise pH before the RO to 8.3 (or before 2nd pass RO)
Benefit: Makes RO highly effective
Disadvantage: Uses chemicals (NaOH)
3. Use GTM (Liqui-Cel[®]) after the RO
Benefit: Highly effective and chemical-free



Since EDI concentrate scaling is caused by the combination of 3 things: 1) Ca/Mg hardness ions, 2) CO₂, and 3) high pH, scaling is prevented by removing CO₂, and with SnowPure's non-scaling "Thin Concentrate" design which also lowers the pH of the concentrate.

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