

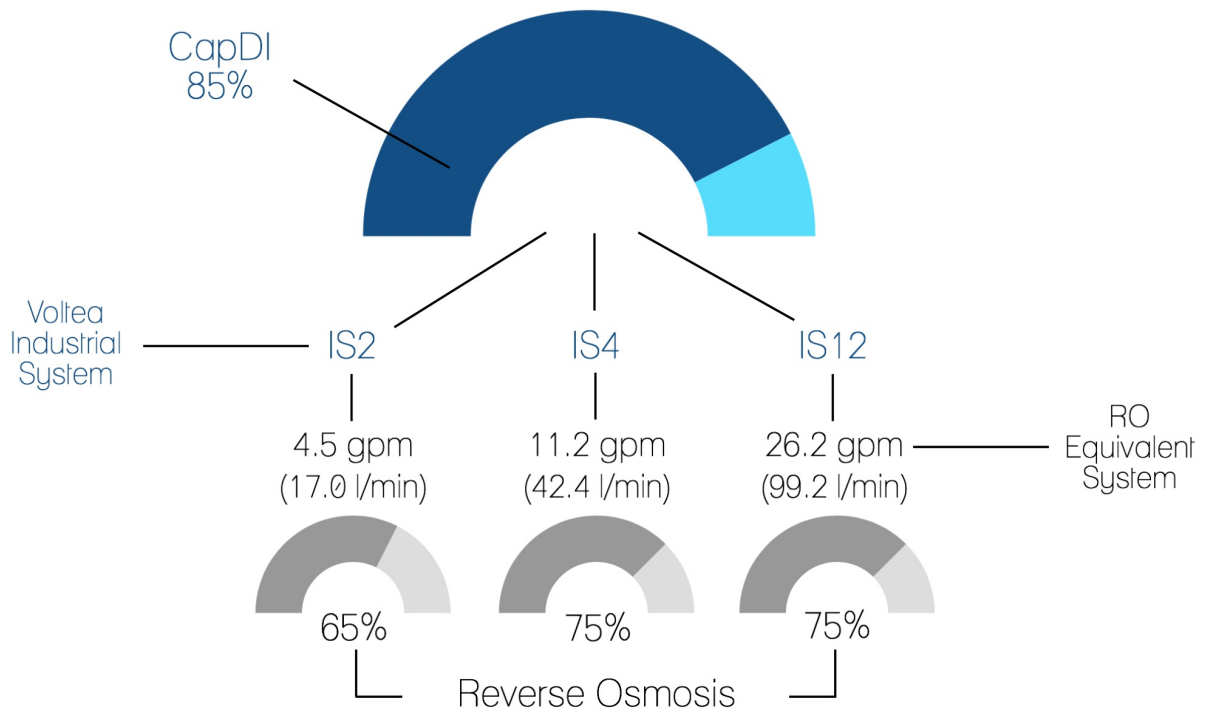


CapDI[®] vs TECHNICAL COMPARISON RO

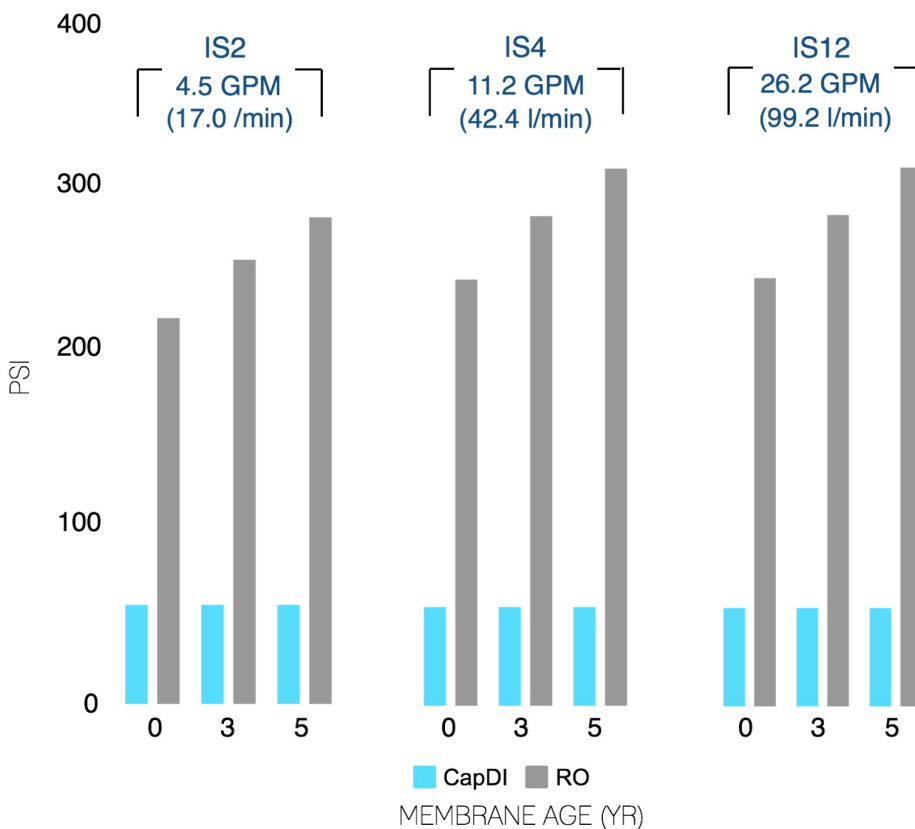
— 500 ppm —

This document represents the technical comparison between Voltea's CapDI technology and conventional Reverse Osmosis based on product and sales figures. Data included reflects 500 ppm TDS and 50°F (10°C) feed water for the study of low water temperature effects. System sizing is based on Voltea's line of Industrial Series systems IS2, IS4, and IS12, and their equivalent sized RO systems at a membrane age of 0, 3, and 5 years.

Design Water Recovery



Design water recovery for CapDI remains consistent up to 85% over all system sizes, compared to RO which varies depending on system size and configuration.

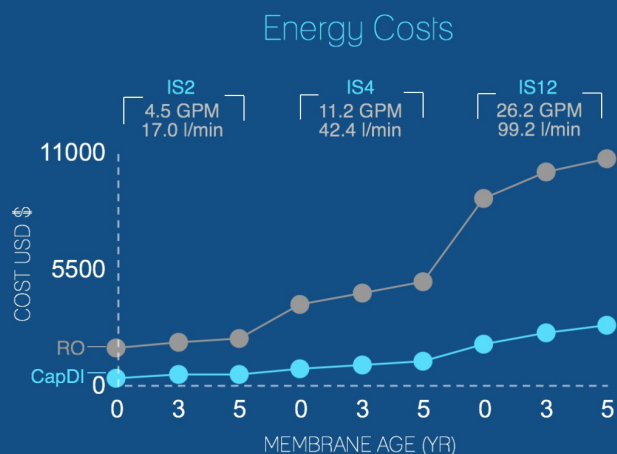


Operating Pressure

The PSI value for RO varies based on the membrane age and operating water temperature. As the membrane ages and the temperature varies throughout the seasons, the RO operating pressure increases accordingly. With CapDI, the PSI value stays consistent throughout the years irrespective of changes in water temperature. In this example, the data is produced using 50°F (10°C) water at 0, 3, and 5 year old membrane RO systems.

Energy Consumption & Costs

Voltea's CapDI is the industry leader in deionization as shown by these standout performance statistics on energy consumption and associated costs.

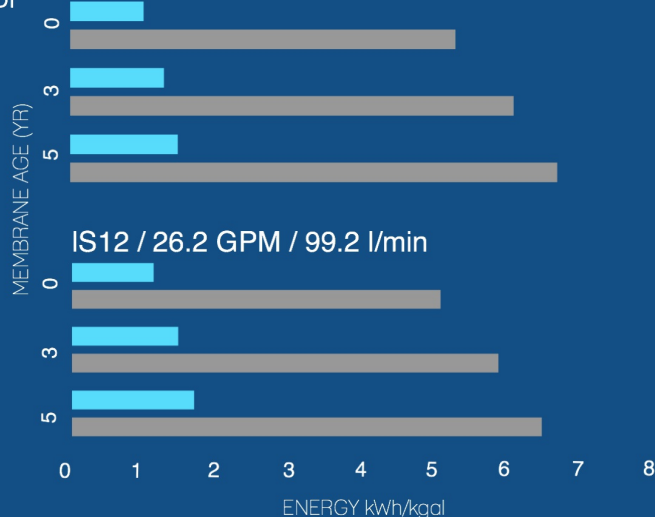


Energy Consumption

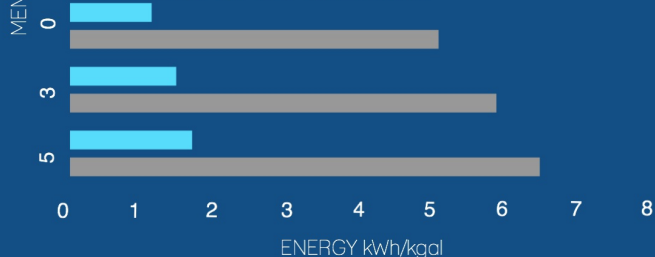
IS2 / 4.5 GPM / 17.0 l/min



IS4 / 11.2 GPM / 42.4 l/min



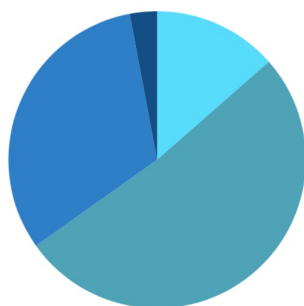
IS12 / 26.2 GPM / 99.2 l/min



Cost of Ownership

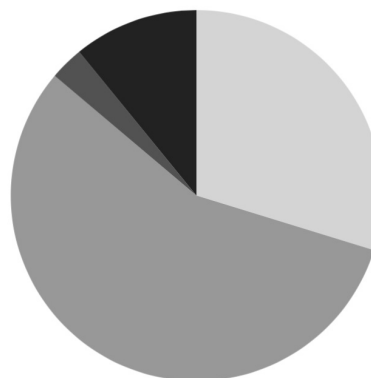
The cost of ownership for both CapDI and RO has been broken down into 4 categories; energy, waste water, module/membrane replacement, and CIP and maintenance costs. These figures represent the IS12 CapDI system and its equivalently sized RO system over 5 years of ownership.

CapDI
Estimated Annual Cost of
\$20,630



- Energy (14%)
- Waste Water (52%)
- Mod Replace (32%)
- CIP/Maint. (3%)

RO
Estimated Annual Cost of
\$35,670



- Energy (30%)
- Waste Water (56%)
- Mem Replace (3%)
- CIP/Maint. (11%)

Contact a Voltea Sales Representative to discuss how we can evaluate your water quality and size a system for you!

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