Avista | Advisor Ci

AvistaTM AdvisorTMCi Online is a proprietary chemical dosing software with complex ion technology to maximize system recovery, optimize chemical use, and provide targeted solutions for even the most challenging applications.



SCALE PREDICTION WITHOUT LIMITATIONS

Avista AdvisorCi Online predicts precise dosing and use rates for Avista membrane chemicals.

This propriety chemical dosing software calculates the saturation potential of a feedwater based on the free concentration of ions, overcoming a critical weakness in contemporary indices that consider the total analytical value, which typically includes ions that are bonded.

Many variables that affect antiscalant dosage calculations are programmed into AdvisorCi including: precise solubility products (ksp), temperature and pH considerations, ion product calculations, ionic strength and dosing curves that fully consider rate of reaction.

EASY TO USE

Avista AdvisorCi Online antiscalant projections are easy to run. Simply enter your water analysis, select the system recovery, and choose a product. Additionally, with our newest feature, users can now view more than one changing parameter at a time using our 3D Multivariable Model.







See how saturation changes by increasing or decreasing recovery and how selecting a different product will affect the antiscalant dosage.



Calculations for systems with a brine concentrator or second pass for the brine can be calculated on the same screen as the primary reverse-osmosis (RO) system in real time.



Mixing function where up to 12 feed streams can be entered and mixed at different ratios to accurately determine saturation in the mixed brine stream.



3D Multivariable Model allows users to view more than one variable, such as temperature, pH or recovery, to optimize their system.

TOOLS AND FEATURES POWERED BY MACHINE LEARNING

- 3D Multivariable Model Runs many complex calculations at once to analyze multiple recoveries, temperatures, and pH simultaneously.
- **Recovery RO Mode** Simulates a primary and recovery RO system on the same screen, with the ability to adjust recovery, product, and pH separately for each stage.
- Multistream Mixing Combines up to 12 feed streams into one to run through the main RO module.
- Advanced Calculation Engine Accurately predicts the activity of all common scale-forming compounds.
- High-Recovery Application Applies precise calculations to reduce the saturation potential of sparingly soluble salts.
- **Cleaner Module** Recommends the appropriate product based on system foulants and calculates the amount of chemicals needed based on actual system cleaning procedures.

FORECAST MEMBRANE CHEMICAL USE

Avista AdvisorCi Online is more than just antiscalant dosing software. Calculate daily, weekly, monthly, or annual consumption of Avista membrane chemicals including chlorine scavengers, coagulants and biocides to optimize chemical usage. Use the pump and speed settings to get accurate dosing rates to prevent chemical waste from overfeeding. Use our new cleaner function to determine the right chemistry to use based on a wide range of suspected foulants.

RESULTS AND TECHNICAL SUMMARY



New cleaner module can recommend the right cleaner and concentration based on a foulant composition and degree of fouling.



The Technical Summary presents a comprehensive overview of the water analysis and saturations impacting the antiscalant dose.

REQUEST ACCESS TODAY

To request access, visit **avistamembranesolutions.com/request-avista-advisorci** or contact your local sales representative or distributor. Training and assistance with running projects is also available.

Privacy Matters: Avista AdvsiorCi Online is set up to maximize user privacy. All data is encrypted and cannot be accessed unless the user chooses to share a projection. Each user can download their projections to keep local files of their projects and delete files from Avista AdvisorCi Online.

GLOBAL HEADQUARTERS

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