Avista TECHNOLOGIES

Advisor™Ci

RO

INTELLIGENT ANTISCALANT DOSING

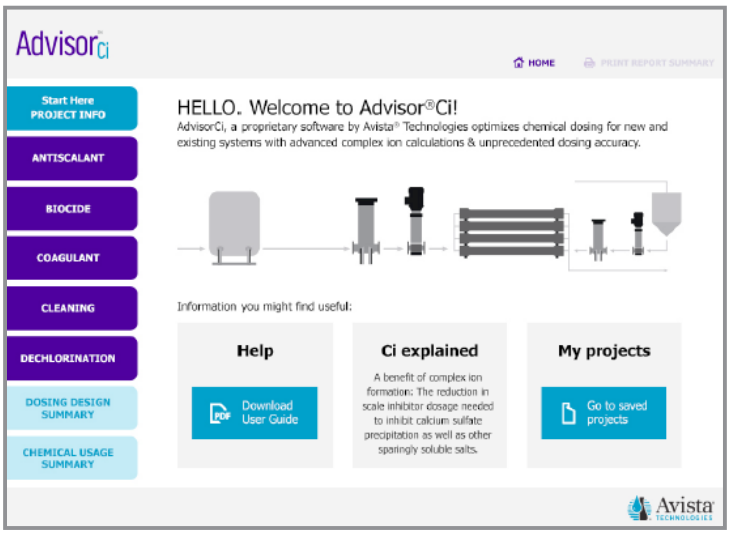
Advisor™Ci is a whole new way of looking at chemical dosing software. We have exceeded all industry standards relating to scale prediction by including complex ion formation and improved temperature correction factors to gain maximum RO system recovery for even the most stressed applications.

LEADING THE INDUSTRY IN COMPLEX ION (Ci) INTELLIGENCE

AdvisorCi calculates the saturation potential of a feed water 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.

This propriety chemical dosing software considers more variables that affect antiscalant dosage calculations including precise saturation constants (Ksp), updated temperature correction factors, improved individual ion product calculations, and new dosing curves that fully consider rate of reaction.

AdvisorCi allows our customers to forecast precise dosing and use rates for all of their membrane system chemical needs with high confidence.



ACCURATE Precise dosing projections for the most complex waters and high recovery applications

RELIABLE All calculations are based on published research and scientifically proven, industry accepted calculations

INNOVATIVE Considers critical variables: saturation constants (Ksp), temperature correction factors, individual ion product calculations and rate of reaction

EASY-TO-USE Simply input raw water quality data and let AdvisorCi run the complex calculations to achieve optimized system performance

THE MOST ACCURATE CHEMICAL DOSING SOFTWARE

TO PREDICT SCALE FORMING COMPOUNDS IN REVERSE OSMOSIS SYSTEMS

Robust calculation engine
A proprietary combination of advanced calculations and scientifically validated CCPP accurately predicts the activity of all scale forming compounds for membrane applications.

Metal dosing factor
Analyzes and adjusts for potential precipitation of metals based on their state of oxidation.

Rate of reaction
Adjusts antiscalant dose according to the feed stream analysis and determines rate of precipitation.

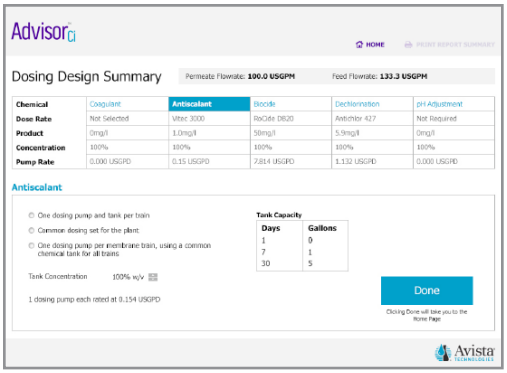
High recovery applications
Applies precise calculations derived from on-site research of waters with high ionic strength to reduce the saturation potential of sparingly soluble salts.

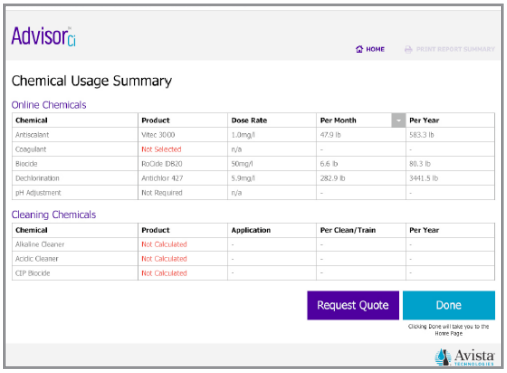
PRACTICAL REPORTING
FROM DESIGN TO APPLICATION

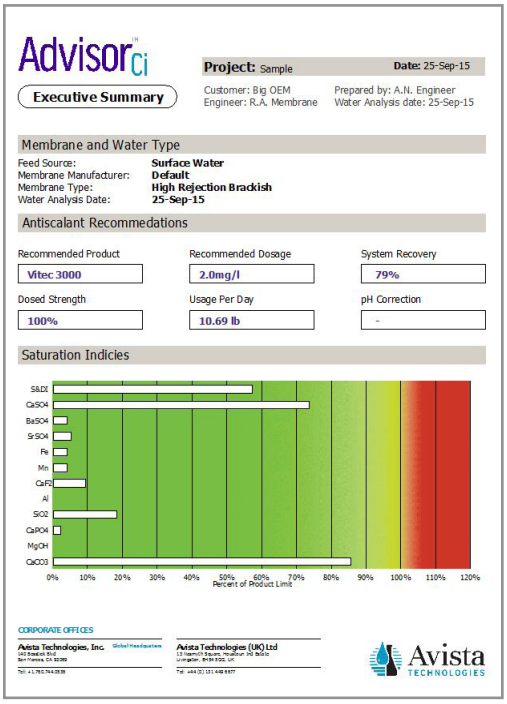
Dosing Design Summary
The dosing design summary is an engineering page that allows you to size the chemical storage tank and dosing pumps. It provides a review of the required chemical flowrate for each chemical and the tank size needed for tank refill intervals. You can select your preferred dosing pump configuration and the software will advise the required flowrate per pump. This allows you to decide whether the required flow is 'practical' and determine if your pump meets the minimum flow or if you need to use a dilution of the product.

Chemical Usage Summary
The chemical usage summary page moves on to logistics, summarizing the chemical consumption over month / year so that an end user or engineer can make cost and chemical use estimates for all treatment chemicals required to run the RO. This page shows you how long a pail, drum or IBC will last – and allows the engineer to select the most practical package size for the plant. They can then design the access and offloading system for the planned package delivery.

Executive Summary
The Advisor™Ci Executive Summary rolls up all the calculations including your annual chemical consumption estimate. This gives you an 'at a glance' OPEX (operational expenditure) summary for your design along with all the details on chemical dose rates needed to allow the plant to function.







*The images above are sample pages.

REQUEST ADVISORCi
Avista Customers have free access to AdvisorCi. If you would like to request AdvisorCi, visit www.avistatech.com/advisorci or contact your local sales representative or distributor and they will assist in software installation and training.

CORPORATE OFFICES

Avista Technologies, Inc.
Global Headquarters
140 Bosstick Boulevard
San Marcos, California 92069
United States
Tel. | +1.760.744.0536

Avista Technologies (UK) Ltd
13 Nasmyth Square, Houstoun Industrial Estate
Livingston, EH54 5GG
United Kingdom
Tel. | +44 (0) 131 449 6677

www.avistatech.com