





# SNOWPURE

## Water Technologies

SnowPure Water Technologies • 130 Calle Iglesia, San Clemente, CA 92672 USA • +1.949.240.2188

- When working with RO Analysis Values (default) the Direct Input Values will be grayed out, and vice-versa
- To switch, type into one of the green boxes in the grayed out section
- RO Analysis now has a MISC section for other data like pH, CO<sub>2</sub>, & silica
- When switching between Input types, the previous section will default to all zeros
- Report screen highlights the input method being used
- Enter site-specific cost per kW\*h

### Remember:

- OEMs can choose RO configuration: one-pass RO, one-pass plus Liqui-Cel® GTM for CO<sub>2</sub> reduction, or two-pass RO.
- Quick links to the product brochures on the SnowPure website.

### Tips for Using EDICAD™ 3:

- Use EDICAD™ to learn about building better EDI systems by learning the importance of how EDI feedwater affects product quality.
- **Enable macros**
  - Click “Enable Macros” when Excel starts.
  - EDICAD™ needs macros. If the splash screens and buttons don’t function, then your macros are disabled! Set macro security to medium and restart Excel.
  - If you are having trouble please contact Customer Service at [info@snowpure.com](mailto:info@snowpure.com) or call +1.949.240.2188.
- Changing each setting alters the result of the projection. Save up to five different cases to compare various scenarios.

SUMMARY OF INFORMATION FROM INPUT PAGE			
<b>CATIONS IN RO WATER ANALYSIS</b>		mg/l	meq/l
Calcium	Ca	0.000	0.000
Magnesium	Mg	0.000	0.000
Sodium	Na	0.000	0.000
Potassium	K	0.000	0.000
Ammonium	NH4	0.000	0.000
Barium	Ba	0.000	0.000
Strontium	Sr	0.000	0.000
Iron	Fe	0.000	0.000
Manganese	Mn	0.000	0.000
Hydronium	H	0.00010	0.005
<b>Total Cations</b>		0.000	
<b>ANIONS IN RO WATER ANALYSIS</b>		mg/l	meq/l
Carbonate	CO3	0.000	0.000
Bicarbonate	HCO3	0.000	0.000
Sulfate	SO4	0.000	0.000
Chloride	Cl	0.000	0.000
Fluoride	F	0.000	0.000
Nitrate	NO3	0.000	0.000
Hydroxyl	OH	0.002	0.005
<b>Total Anions</b>		0.000	
<b>Balance of RO Analysis</b>		<b>Ionic Balance</b>	<b>o.k.</b>
pH		Post RO pH	7.00
Organics		Post RO TOC	0.00
Silica		Post RO SiO2	0.00
<b>DESIGN FEED WATER CONDUCTIVITY</b>			
From RO permeate WATER ANALYSIS including Silica & CO2			
* Feed Conductivity		0.00	µS/cm
	0.00	ppm as NaCl	
* Total Carbon Dioxide, CO2+HCO3		0.00	µS/cm
ppm as SiO2	0.00	Silica, SiO2	0.00
* FCE Feed Conductivity Equivalent		0.00	µS/cm
<b>DIRECT INPUT VALUES</b>		mg/l as ion	Value
Conductivity	µS/cm	0.0	Estimate of RO Conductivity
Organics	TOC	0.000	Input RO pH
Ammonia	NH3	0.000	
Hardness	mg/l	0.000	
Ca+2	mg/l	0.000	
CO2	mg/l	0.000	Measured CO2 mg/l as Ca+2
Total CO2	mg/l	0.000	CO2+HCO3
Total Alkalinity	mg/l	0.000	Total Alkalinity
Est. CO2	mg/l	0.00	Est. from m-ALK and pH
Est. HCO3	mg/l	0.00	Est. from m-ALK and pH
Est. CO3	mg/l	0.00	Est. from m-ALK and pH
<b>VALUES FROM INPUT PAGE</b>			
EDI Inlet Temperature	°C	25.0	Value
EDI Product Flow	m3/h	0.10	
EDI System Recovery	%	90	
Inlet Backpressure	Bar	0.01	
Conc. Backpressure	Bar	0.00	
Electr. Backpressure	Bar	0.00	
Type of Module	XL or EXL	XL-100-R	
Number of Modules	#	1	
Est. cost of a kWh	USD	0.14	
<b>DESIGN FEED WATER CONDUCTIVITY</b>			
From DIRECT INPUT VALUES or estimated conductivity			
* Feed Conductivity		0.0	µS/cm
		0.00	ppm as NaCl
Total Carbon Dioxide, CO2+HCO3		0.00	µS/cm
ppm as SiO2		0.00	µS/cm
* FCE Feed Conductivity Equivalent		0.00	µS/cm

2. INPUT SYSTEM AND PROCESS PARAMETERS					
<b>PHYSICAL</b>		Value	Unit	<b>MODULES REQUIRED/COST</b>	
EDI Inlet Temperature	20	°C	Series:	Estimate*	Entry
EDI Product Flow	0.10	m3/h	Choose Brochure!	Electropure module	XL-100 Series
	0.44	gpm	Then click here for link:	Number of modules	1
EDI System Recovery	90	%	Confirm RO Setup, module type, module quantity and kW/h cost!		
Prod. Backpressure	0.01	Bar		Est. Cost of a kW*h	0.14
Conc. Backpressure	0.00	Bar			
Electr. Backpressure	0.00	Bar			
<b>CHOOSE RO SETUP</b>		<b>Selected RO Setup:</b>			
		One-Pass RO			
<b>Remarks:</b>					

EDICAD™ is an estimating program. This software is designed to help OEMs bid, design, and build the best EDI systems in the world. It is to help our customers show their customers the operating cost and benefits of EDI technology.

DISCLAIMER: EDICAD™ does not infer any cost or performance guarantees. It is up to the OEM to use best practices in the design of their systems.

