

Avista™ | OSCAR

Maximize the productive life of membranes

Avista™ OSCAR off-site cleaning and restoration uses equipment specifically designed to provide ideal flow rates, water temperature, and cleaning pressures.



OFF-SITE CLEANING AND RESTORATION SERVICES

Avista™ OSCAR for off-site cleaning and restoration is available when cleaning on-site is not practical or possible. Reverse osmosis (RO) membranes are pre-tested, cleaned, and post-tested with the goal of restoring performance to original factory specifications.

- Avista OSCAR pressure vessels accommodate a maximum of three standard 40” membranes. This means that the applied pressure necessary for optimum flow rates is significantly lower than that required to clean the six or seven membranes typically housed in on-site vessels.
- Avista RoClean™ cleaning chemistry is used to dissolve scale and disperse particles off the surface of the membrane. RoClean cleaners are compatible with all membranes supplied by major manufacturers.
- Cleaning of both 4” and 8” elements is available.

AVISTA OSCAR PROCESS

- Cleaned elements are heat sealed in a poly bag and packaged in a new box for transport
- Pre- and post-test data is returned with every order so that operators can see not only the results of the clean, but also select specific membranes for re-installment based on specific performance parameters
- Physically inspect each element
- Initial Element Wet Test Results
- Element Cleaning
- Element Post-Test
- Element Preservation

Avista OSCAR		Customer Information		Chemistry Used	
Name: ABC Water Technologies		Name: ABC Water Technologies		Chemical 1001	
Est Name: XYZ Company		Date: 5/27/20		Chemical 1011	
Customer P.O. #01000000		Work Order No.: 030007			
Finishes: FORTLIFE CR100		Normal Conditions: Feed Pressure: 215 Recovery: 92%		Manufacturer Specifications: Flow Rate: 0.70 to 0.10 % Rejection: 99.4% to 99.7%	
Serial Number	Test	Delta Pressure psi	Flow gpm	Normalized Rejection %	Notes
1522000	Pre Clean	5.45	95.4		
	Post Clean	0.40	95.4		
1666019	Pre Clean	5	95.5		
	Post Clean	0.40	95.3		
1571164	Pre Clean	7.05	95.4		
	Post Clean	0.38	95.4		
1571165	Pre Clean	4	95.9		
	Post Clean	0.40	95.3		
15712045	Pre Clean	4	97.8		
	Post Clean	0.28	95.4		
15712021	Pre Clean	7.11	95.1		
	Post Clean	0.35	95.3		
15712024	Pre Clean	7.08	97.4		
	Post Clean	0.42	95.3		
15712025	Pre Clean	7.05	97.1		
	Post Clean	0.48	95.4		
15712027	Pre Clean	7.23	97.3		
	Post Clean	0.35	95.4		
15712028	Pre Clean	7.12	97.0		
	Post Clean	0.34	95.4		
15712029	Pre Clean	7.07	95.6		
	Post Clean	0.28	95.4		

AVISTA OSCAR: UNIQUE ADVANTAGES

- **Provides Flexibility:** Solution for sites with inadequate clean-in-place (CIP) systems.
- **Operator Friendly:** Decrease plant labor requirements.
- **Environmentally Friendly:** Eliminate discharge restrictions related to cleaning solutions.

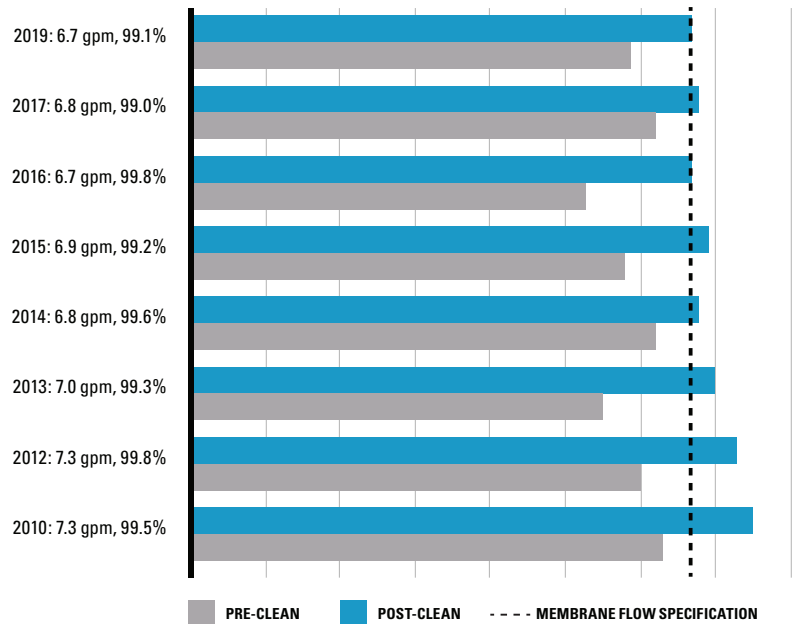
OSCAR CASE STUDY

SITUATION

A large northwest United States computer manufacturing company has been cleaning membranes for their UPW RO process using OSCAR services at Avista Technologies since 2010. Interesting facts for this story are that these membranes have traveled to-and-from New York 8 times in the past 10 years covering 43,200 miles via inland freight. During this time frame these membranes have not been replaced and are performing to manufacturer’s spec since 2010. This confirms that one can clean and transport membranes for detailed pre and post cleaning analysis to exceed the average membrane life of 3 to 5 years.

- These membranes have traveled to-and-from New York 8 times in the past 10 years covering 43,200 miles via inland freight.
- During this time, these membranes have not been replaced and are performing to manufacturer’s spec since 2010.

10-YEAR MEMBRANE LIFE CYCLE CASE STUDY



SOLUTION

This confirms that membranes can be cleaned and transported for detailed pre- and post-cleaning analysis and successfully exceed the average membrane life of 3 to 5 years.

Please consult your sales and technical consultant.

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