

## CHEMICAL PRODUCTS – USAGE RECOMMENDATIONS FOR MEMBRANE CLEANING

**Warning: It is essential to handle chemicals with care and awareness. Understanding the potential risks associated with these products and adopting safe practices is crucial for ensuring your safety. If you have questions about our chemical products, do not hesitate to contact us.**

### STANDARD CLEANING (BASIC)

After a 20% drop in production flow, if the membrane isn't cleaned, some loss will be irreversible. We recommend performing a standard membrane wash when it becomes less effective. The membrane can be calibrated with a simple calculation (PWP test).

For membrane cleaning, the pH level is a crucial measurement. Refer to your manufacturer to know the recommended pH to achieve during the wash cycle. For H2O membranes, you should reach a pH of 12 and a temperature of 40°C (104°F). Proper monitoring of pH levels will enable effective washes and prevent damage to the membrane. You can use the pH paper strips #COLR59200-10 for this purpose.

### Recommended products and approximate quantities:

*\*\*Recommendations for 1 to 3 membranes RO. When there are more membranes, always check your pH to adjust the actual quantities. \*\**

PRODUCT	PRODUCT NUMBER	QUANTITY
<b>Bio-membrane</b>	<b>7302BM4L</b>	1/4 cup / 4" Membrane
		1 cup / 8" Membrane
Utility: This product includes an additive, making it the top specialized cleaning chemical for membranes used in maple sap concentration. It cleans organic material stuck on the membrane's surface. After a standard cleaning, rinsing is necessary.		
<b>OR</b>		
<b>Ultra Bio-membrane</b>	<b>7302UBM4L</b>	1/8 cup / 4" Membrane
		1/2 cup / 8" Membrane
Utility: It's more concentrated than the original Bio-membrane formula, so you'll need less of it.		
<b>OR</b>		
<b>Lavazol 7</b>	<b>7302LV720L</b>	1/8 cup / 4" Membrane
		1/2 cup / 8" Membrane
<b>OR</b>		
<b>RO Clean+ (powder soap)</b>	<b>7302RO1 (1.5 lb) 7302RO4 (4 lb) 7302RO25 (25 lb)</b>	7.5ml (1/2 tablespoon) / 4" Membrane
		1/8 cup (2tablespoons) / 8" Membrane
Utility: It cleans organic materials stuck on the membrane's surface. After a standard cleaning, rinsing is needed. Important: This product is highly concentrated, so maintaining the correct pH during your wash cycle is crucial. The target pH for effective cleaning is 12.		
<b>OR</b>		
<b>RO Clean+ (liquid soap)</b>	<b>7302RO4L (4 liters) 7302RO20L (20 liters)</b>	1/4 cup / 4" Membrane 1
		cup / 8" Membrane
Utility: It cleans organic materials stuck on the membrane's surface. After a standard cleaning, rinsing is required.		

## CHEMICAL PRODUCTS – USAGE RECOMMENDATIONS FOR CLEANING YOUR MEMBRANES

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### ADVANCED CLEANING (ACID)

It is important to perform several acid cleanings during the season. We recommend doing it when there is a visible presence of iron and manganese (colored deposits in the flow meter). It is also suggested to perform an acid cleaning at one-third of the season, as the sap tends to be mineral-rich at this time. Note that the higher the concentration, the more minerals the membranes will accumulate, requiring more acid washes. Just like basic washes, monitoring the pH is crucial.

#### Recommended products and approximate quantities:

*\*\*Recommendations 1 to 3 membranes RO. When there are more membranes, always check your pH to adjust the actual quantities. \*\**

PRODUCT	PRODUCT NUMBER	QUANTITY
<b>ACID+ (powder)</b>	<b>7302AP1 (1.5 lb)</b>	<b>1/4 cup / 4" Membrane 1</b>
	<b>7302AP4 (4 lb)</b> <b>7302AP25 (25 lb)</b>	<b>cup / 8" Membrane</b>
Usage: The acid dissolves mineral waste. After an acid wash, please perform a standard (basic) cleaning, then rinse.		
AND IF NEEDED		
<b>ACID+ (liquid)</b>	<b>7302AP20L (20 liters)</b>	<b>1/2 cup / 4" Membrane 2 cups</b>
		<b>/ 8" Membrane</b>
Usage: The acid dissolves mineral waste. Do not go below a pH of 3. After an acid wash, please perform a standard (basic) cleaning, then rinse.		
<b>OXI+</b>	<b>7302XP10L</b>	<b>1/4 cup / 4" Membrane 1</b>
		<b>cup / 8" Membrane</b>
Usage: OXI+ prevents biological fouling by neutralizing bacteria. pH measurement is not important during an OXI+. After an acid wash, please perform a standard (basic) cleaning, then rinse. Note: NEVER perform an OXI+ without first doing a basic wash. Temperature is very important in this process. <b>Never exceed 23.3 °C or 74 °F.</b> You will need to manually stop the system when it reaches 23.3 °C (74 °F). OXI+ cleaning is optimal when the membrane is soaked for 24 to 48 hours.		

At H2O Innovation Leader, membrane filtration is our specialty. For any questions about reverse osmosis, membranes, and chemical products, contact us. We are happy to assist you!

You can also find safety data sheets for these products in the Documentation section of our website.

