



OSMOSIS WASH SOAP-ACID-OXISAN

Quantity of permeate necessary for cleaning

<u>Membrane</u>	<u>Quantity</u>	The amount of permeate to be used for acid washing for an 8" membrane. Example: De-sugaring 300 gallons Wash 300 gallons Acid and rinse 300 gallons Wash and rinse 300 gallons <hr/> Total : 1200 gallons
1 x 4 in	125 gallons	
(2 or 3) x 4 in	100 gal./membrane	
1 x 8 in	600 gallons	
2 x 8 in	500 gal./membrane	
3 x 8 in	400 gal./membrane	
1 x 16 in	2400 gallons	
2 x 16 in	2000 gal./membrane	

Note: Half rinse before soap and the other half rinse after soap.

WATER VOLUME IN AN OSMOSIS

<u>Post</u>	8in = 10 gallons 16in = 25 gallons	<u>Washing tank</u>	Small 25 gallons Large 40 gallons
Plumbing according to osmosis = 2 to 10 gallons - Multi-cartridge = 5 gallons Blue cartridge (each) = 1 gallon			
<u>Example:</u>			
<u>8 x 3 post</u>	<u>Small washing tank</u>	<u>Blue tank 3 cartridges</u>	<u>Plumbing</u>
30 gallons	25 gallons	3 gallons	3 gallons = <u>61 gallons</u>
<u>1 x 16 in + 4 x 8 in</u>	<u>Large tank</u>	<u>2x Multi cartridge</u>	<u>Plumbing</u>
25 + 40 = 65 gallons	40 gallons	10 gallons	10 gallons = <u>125 gallons</u>

Dead water = plumbing and cartridge (without washing tank)

Residual water = none when all drains are open



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Simple wash with soap

- De-sugaring up to 0 brix.
- Change the filter cartridge.
- Rinse, half before wash (See table for quantities).
- PH soap (PH – According to manufacturer's recommendations) stop at 43 degrees.
- Rinse, the other half after wash (See table for quantities).
(If the water in the wash tank becomes dirty, change it).

Acid wash (if necessary)

- **Acid washing should only be done if after a regular wash the performance of the membrane has not returned to normal. Always do a regular wash before washing with acid.**
- Must always be preceded by a soap wash.
- After the rinse of the soap wash, put the citric acid, 2.5 cups / 25 gallons (see volume of water in the osmosis) and do the wash cycle.
- Do a rinse after the wash.
- Redo a soap wash.
- Do a last rinse.

Sterilization – Liquid Oxisan

- Sterilization is mainly carried out at the end of the season or in a major case of membrane clogging.
- Sterilization should only be carried out if the soap and the acid have no effect and the maximum performance of the membranes is not reached.
- The amount of product required is 700ml per 100 liters (1 oz. per gallon) of water in the concentrator during the wash cycle.
- The wash must reach a maximum temperature of 25 degrees Celsius (77 degrees Fahrenheit) and soak in this solution between 1 to 48 hours depending on the degree of clogging of the membranes and the time available.
- The osmosis can be restarted several times to improve washing efficiency.
Important: Failure to follow the procedures for the use of this product may cause irreversible damage to the membranes.
- Redo a complete soap wash.