

Membrane cleaning on System w/Sump Pump

Items required:

Citric acid for Scale Removal Alkaline High pH for Organics/Bacteriological Fouling, should be readily available in granulated form. Always start with the Alkaline High pH first then use the Citric Acid next.

5 Gallon Bucket

Small Sump Pump $\frac{1}{4}$ to $\frac{1}{3}$ HP

Hose and fittings along with a ball valve to adapt the sump pump outlet to the 1" FPT Threads on Inlet Solenoid.

Ball valve is to reduce flow/pressure if sump pump is putting out too high a pressure. Maximum Pressure when cleaning is 60 psi.

Steps;

1. Mix Citric Acid for Scale Removal, Alkaline High pH for Organics/Bacteriological Fouling, in bucket with 4 gallons of water before you drop in the sump pump. Best cleaning results using warm water 80-90°
2. Run the concentrate (Drain) to the bucket and secure as will fly if not
3. Run Permeate directly to the bucket
4. Open concentrate valve fully
5. Open By-Pass on the solenoid
6. Plug in pump and let run for 10 minutes, dump solution if either mucky or solution has turned yellow, Light Scaling, to a golden color.
7. Redirect the concentrate to a drain and run pump while filling the bucket with a hose for 5 minutes (this will flush enough of the old solution out to start over again.
8. Do this until the solution is clear.
9. Reinstall the feed supply to the solenoid, open solenoid bypass and let run for 20 minutes.
10. Start system and slowly reduce the concentrate flow to produce maximum 1.3 GPM Permeate, 1 GPM Concentrate minimum, test TDS and reinstall the permeate to your storage tank.