



Technical Service Bulletin

October 2013 TSB200.03

Heat Sanitization and Cleaning Guidelines for the SanRO Elements

SanRO-HS Heat Sanitization Guidelines

A recommended procedure for the sanitization cycle consists of the following:

- Remove process solution from system, then flush with RO permeate water at low pressure.
- Recycle warm RO permeate water (~45°C) at low pressure (< 25 psig).
- Increase temperature up to 85°C as required at a rate not to exceed 4°C/minute.
- Maintain sanitization temperature for at least 30 minutes as required for appropriate sanitization.
- Cool system at a rate not to exceed 7°C/minute.
- Flush the system adequately with RO permeate water.

SanRO, SanRO-HS Cleaning Guidelines

The SanRO product line may require periodic cleaning. For the removal of biological foulants, use either a pH 10 NaOH solution at temperatures between 90 °F - 110 °F (32 °C - 43 °C) or a 0.2% peroxide solution. During application of hydrogen peroxide the water temperature should not exceed 77°F (25°C).

- Cycle the solution for one hour through the system at 30 - 60 psi (2 - 4 bar).
- Prior to restarting the system, flush the system adequately with RO permeate water.

NOTE : Refer to Hydranautics' TSB 107, RO Membrane Foulants and Their Removal from Composite Polyamide (ESPA, ESNA, CPA, LFC and SWC) RO Membrane Elements, for complete information on foulants and membrane element cleaning instructions.

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