



ULTRAPURE & INDUSTRIAL SERVICES GROUP, DALLAS

This site-specific information is to be coupled with the general overview of sanitization information for proper use of, and the primer for Minncare disinfectant. Please refer to the Fibercor / Minntech paperwork included in this packet.

- I. Preparation for Sanitization
- II. Concentration of Solution
- III. Time of Circulation
- IV. Rinse Out Procedures

SANITIZATION PROCEDURES

PREPARATION FOR SANITIZATION

- A. SCHEDULE SHUT DOWN OF LOOP WITH PRODUCTION / COMPOUNDING
- B. HAVE SANITIZATION SKID AND MINNCARE ON SITE
- C. SAFETY MEETING ON SITE PRIOR TO STARTING WORK
- D. TURN OFF REVERSE OSMOSIS UNIT

II. CONCENTRATION OF SOLUTION

- A. DRAIN STORAGE TANK WITH BLOWDOWN VALVE TO 1000 GALLONS WITH LOOP PUMP RUNNING
- B. TURN OFF UV LAMPS
- C. ADD 10 GALLONS MINNCARE STERILANT TO STORAGE TANK
- D. RECIRCULATE FOR 15 MINUTES
- E. USING MINNCARE 1% TEST STRIPS CHECK CONCENTRATION OF SOLUTION
- F. CHECK CONCENTRATION AND ADD MINNCARE SOLUTION AS NEEDED TO REACH AND MAINTAIN A 1% CONCENTRATION

III. TIME OF CIRCULATION

- A. WHEN CONCENTRATION LEVELS STABILIZE AT 1% FOR 2 – 15 MINUTE READINGS CIRCULATE FOR 2 HOURS

- B. UNDER SOME CIRCUMSTANCES (WHEN SYSTEM IS EXTREMELY BIO-FOULED) AN ADDITIONAL 2 HOUR STATIC SOAK – LEAVING SOLUTION IN SYSTEM WITHOUT CIRCULATING
- C. CHECK CONCENTRATION AT REGULAR INTERVALS TO MAINTAIN 1% CONCENTRATION LEVEL
- D. AFTER STATIC SOAK CIRCULATE SOLUTION FOR 15 MINUTES
- E. DUMP SOLUTION TO DRAIN

IV. RINSE OUT PROCEDURE

- A. TURN OFF LOOP PUMP
- B. ADD DECHLORINATED CITY WATER TO STORAGE TANK (APROX. 100 GAL)
- C. START LOOP PUMPS
- D. TURN ON UV LAMPS
- E. OPEN DUMP VALVE TO DRAIN AND CONTINUE FILLING STORAGE TANK WITH DECHLORINATED CITY WATER
- F. CHECK CONCENTRATION OF SOLUTION WITH RESIDUAL TEST STRIPS @ FILTER HOUSING AND BOTH POU DROPS
- G. CONTINUE FLUSHING TO DRAIN AND ADDING DECHLORINATED CITY WATER UNTIL ALL TEST POINTS READ LESS THAN 1 PPM RESIDUAL ON TEST STRIPS
- H. DRAIN DOWN SYSTEM USING PUMP AND BLOWDOWN VALVE UNTIL PUMP LOSES PRIME – SHUT OFF PUMP
- I. OPEN DRAIN ON BOTTOM OF TANK AND DRAIN RESIDUAL DECHLORINATED CITY WATER FROM TANK
- J. SHUT OFF UV LAMPS
- K. TURN RO UNIT ON WITH SWITCH IN AUTO POSITION AND ALLOW TO MAKE UP TO APPROXIMATELY 1000 GALLONS
- L. PURGE AIR FROM PUMPS AND FILTER HOUSING AND UV UNITS
- M. TURN ON UV LAMPS
- N. START LOOP PUMP
- O. CHECK POU DROPS WITH RESIDUAL TEST STRIPS TO CONFIRM THAT ALL MINNCARE HAS BEEN RINSED FROM SYSTEM
- P. FLUSH ADDITIONAL 500 GALLONS TO DRAIN USING BLOWDOWN VALVE
- Q. RETURN SYSTEM TO NORMAL AUTO MODE