



TOWER/CONDENSER CLEANING PROCEDURE FOR SCALE DEPOSITION REMOVAL

WATERTECH 3748

1. Make down WT-3748 into a liquid solution. Mixing with warm water (120°F max) will help dissolve the powder. (Mix at 1 lb. of WT3748 / 1 gal of water – max).
2. Physically remove any debris in the sump or tower basins. Remove and clean all strainers, filters, or screens in the system.
3. Turn off chemical feed system.
4. Turn on the tower/condenser recirculation pumps. Turn off fans.
5. Assure that water is flowing evenly across the tower/condenser. Check all distribution pans or nozzles for proper water flow.
6. Add solution to the tower/condenser sump at concentration of .25-.75 lbs per gallon of system volume (depending on amount of scale present). Example: 1,000 gallon system capacity would yield 250-750 lbs of WT-3748 as a powder.

***Note:** Start with 50% of the calculated WT-3748 needed. This will minimize foaming. The remaining WT-3748 should be added as the pH in the system water begins to rise over 4.0. Continually add chemical to bring the pH levels down to 1.5-2.0. Stop adding chemical when the pH no longer rises. This indicates there is no more scale in the system.*
7. Allow chemical solution to circulate throughout tower/condenser system for a minimum of 8 hours or until no more foaming occurs or the pH stabilizes and no longer rises.
8. Monitor the water quality during the recirculation period.
 - a. As the pH rises, additional WT-3748 should be added to maximize chemical strength and calcium removal.
 - b. Watch for foaming and add 2-4 oz. of defoamer to minimize foaming.
9. Once the chemical cleaning is completed the pH must be checked. System water pH must meet local regulations for minimum pH. If a pH adjustment is required, add WT-3730 or sodium hydroxide to raise the pH to the proper limit.
10. Flush and fill the entire system with fresh water until all remaining cleaning
 - a. solution is out of the system.
11. Physically remove any calcium scale deposits and debris that may have accumulated in the sump or tower basin areas. Remove all strainers, filters, or screens and clean any accumulation.
12. Fully rinse the pump cart to assure there is no remaining chemical residual. Drain and allow to dry before shipping.