

Supplemental Cooling Tower Descaler Instructions with Shower Spray Method

The following is a detailed procedure for cleaning a cooling tower or an evaporative condenser system with **RYDLYME**. To ensure a successful cleaning, please contact Apex Engineering Products Corporation for technical assistance prior to starting the cleaning procedure.

1. Close make up water valve to tower basin.
2. Turn off all chemical or non-chemical water treatment, conductivity meters and pH meters.
3. It is recommended that all loose water scale, lime, mud, rust and other foreign matter be manually removed from tower basin prior to starting the cleaning.
4. Lower the water level in the tower basin to a point where the pump can maintain circulation without cavitation and close the bleed-off valve.
5. It is recommended that the fans be turned off during the cleaning.
6. Determine the proper amount of **RYDLYME** to be added to the system. Please note that the amounts recommended in the chart are guidelines and that your application may require more than the chart amount, depending on the severity of the deposit build-up in your system.
7. To minimize excessive foaming, you may slowly add required amount of **RYDLYME** to the tower basin using the **75LDP**.
8. The bubbling and foaming you will observe is a natural reaction of the **RYDLYME** dissolving the water-formed mineral deposits.
9. Once the **RYDLYME** is in the tower system, allow to circulate for prescribed duration. Optionally, place **75LDP** suction tube into the cooling tower basin. Attach a spray nozzle to the discharge hose to shower **RYDLYME** onto restricted surfaces. Carefully shower so **RYDLYME** returns to the cooling tower basin to continue the circulation. Additional PPE such as splash goggles and coveralls are recommended for this method. (See fig. 1).
10. Start charting your pH readings or performing calcium spot tests to measure the effectiveness of the **RYDLYME** solution during the cleaning ("[Testing the Effectiveness](#)" is available on our website or contact us directly for a copy).
11. If the **RYDLYME** cleaning solution expends prior to completion of the recommended circulation time, there is more scale in the system. It is recommended that you repeat steps 6-9 to complete the cleaning.
12. It is recommended that the **RYDLYME** cleaning solution be cycled out of the system to prepare it for normal operation. At this time, strainers should be removed, inspected and cleaned as well.
13. Once the cleaning material has been cycled from the tower system, turn your conductivity, pH meters or any other equipment on. Return the make-up water and bleed off valves per the manufacturer's recommendations. Lastly, resume normal system operation.

CAUTION: **RYDLYME** is safe, but the application of **RYDLYME** may expose pre-existing under deposit corrosion (pitting, holes or similar damage) that can result in leaks in pipes, equipment or systems.

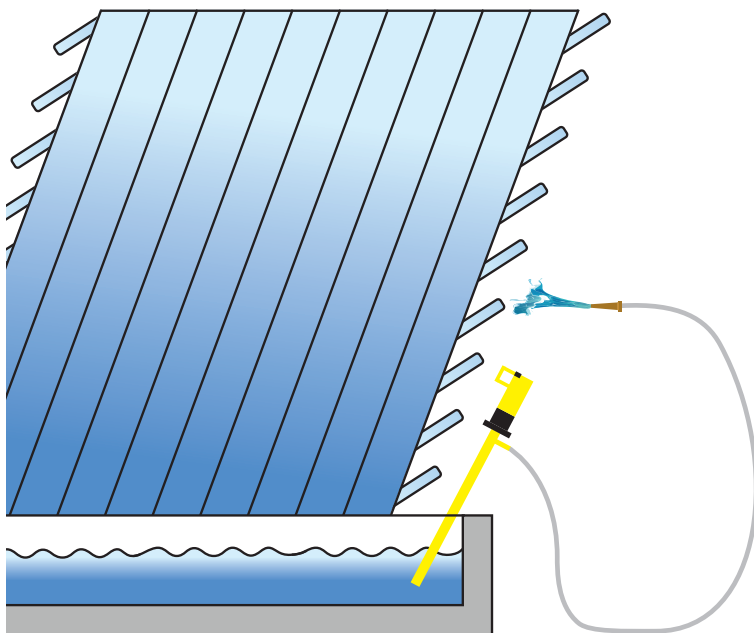


Fig. 1. Spraying diluted **RYDLYME** from cooling tower basin using **75LDP** to dissolve remaining scale deposits on fill and other areas.

