



***RYDLYME* CLEANING OF BOILERS**

Boiler maintenance is crucial to the continued efficient operation of your facility. One component to your boiler's preventive maintenance program should be an annual cleaning to remove mineral scales that have accumulated within the boiler. These deposits are great insulators that inhibit heat exchange and cause the boiler to lose heat transfer, thus efficiency. For example, scale that is only 1/16" thick will cause the boiler to use 15% more fuel, 1/8" of scale requires 20% more fuel, and 1/4" of scale increases fuel consumption by 39%. *RYDLYME* is the perfect tool for dissolving these deposits that rob efficiency and dramatically increase your fuel consumption. An annual *RYDLYME* cleaning will dissolve the deposits into solution without harming the metallurgy or components within your boiler. *RYDLYME* is non-hazardous to the personnel who perform the cleaning and disposal is simple upon completion of the cleaning, as *RYDLYME* is biodegradable.

INSTRUCTIONS FOR *RYDLYME* CLEANING

The standard *RYDLYME* cleaning procedure for most common boilers is as follows:

1. Drain the boiler.
2. Close the drain valve(s).
3. Isolate the boiler for circulation. This can be accomplished by connecting your circulating pump discharge hose to the bottom blow down or similar low point access port. The return hose from the boiler can be connected to the relief valve on the top of the boiler or similar high point access port and returned to your circulation container.
4. Pump in the recommended quantity of *RYDLYME* and make up the remaining volume with water until you achieve a return flow and are able to maintain a steady level in your circulation container.
5. Circulate the *RYDLYME* solution for 4-6 hours. The circulation time and quantity of *RYDLYME* required will vary with the boiler capacity and the severity of the scaling. Please consult your *RYDLYME* representative or the Apex Engineering Products Corporation for technical assistance.



6. The circulating solution should be tested during the cleaning procedure for residual effectiveness. If the solution expends during the cleaning procedure, more **RYDLYME** will be required to complete the cleaning. The solution should still have residual effectiveness upon completion of the recommended circulation time.
7. The boiler can now be drained, flushed thoroughly with water, refilled and prepared for return to service.

The boiler should be free of scale and ready to operate at peak efficiency.

Note: The recommended quantity of **RYDLYME** to clean a boiler depends on the composition and severity of the deposits present in the boiler. Determine the flooded volume of the boiler. Under average to light scaling, we would recommend a 25% solution of **RYDLYME** be utilized. Under average to heavy scaling, we would recommend concentrations up to 50% in a worst-case scenario. Please consult your **RYDLYME** representative or our factory for detailed recommendations.